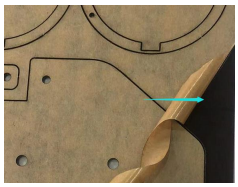
Stray Snail Installation steps

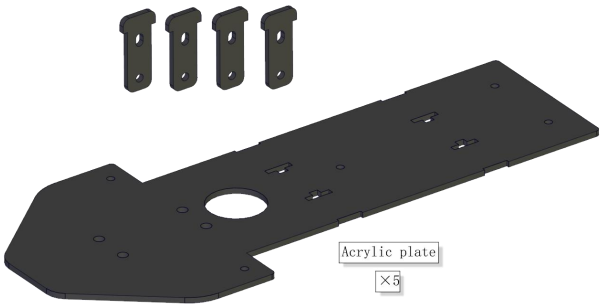
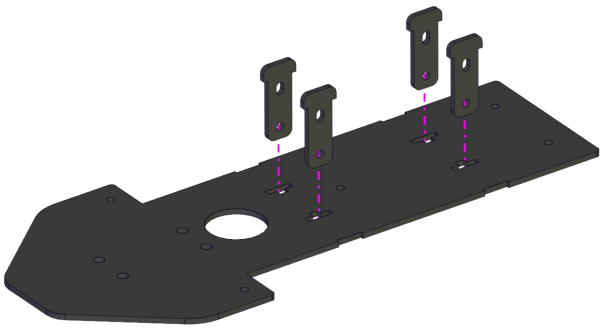
Note: Check out the main tutorial to learn about Arduino before installing it.

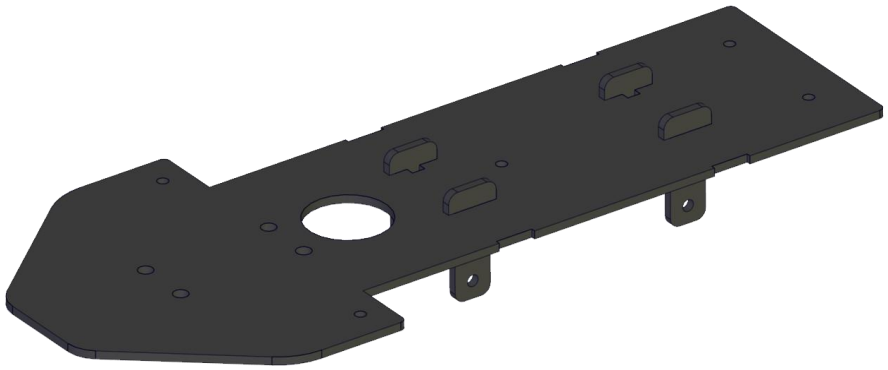
Because installation requires uploading the code that controls the steering gear.

Note: First remove the protective film of the acrylic sheet. As shown below

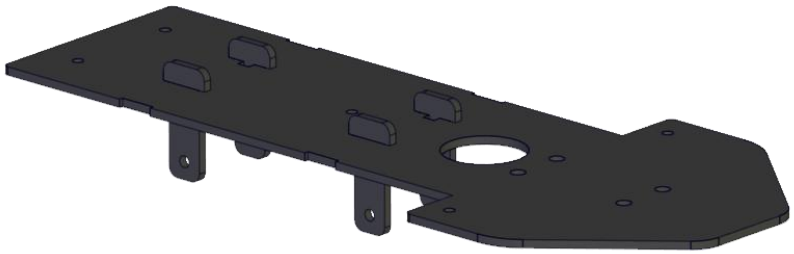
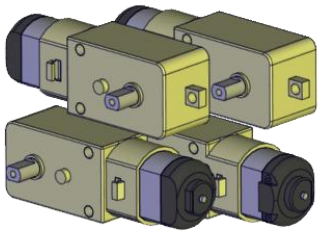


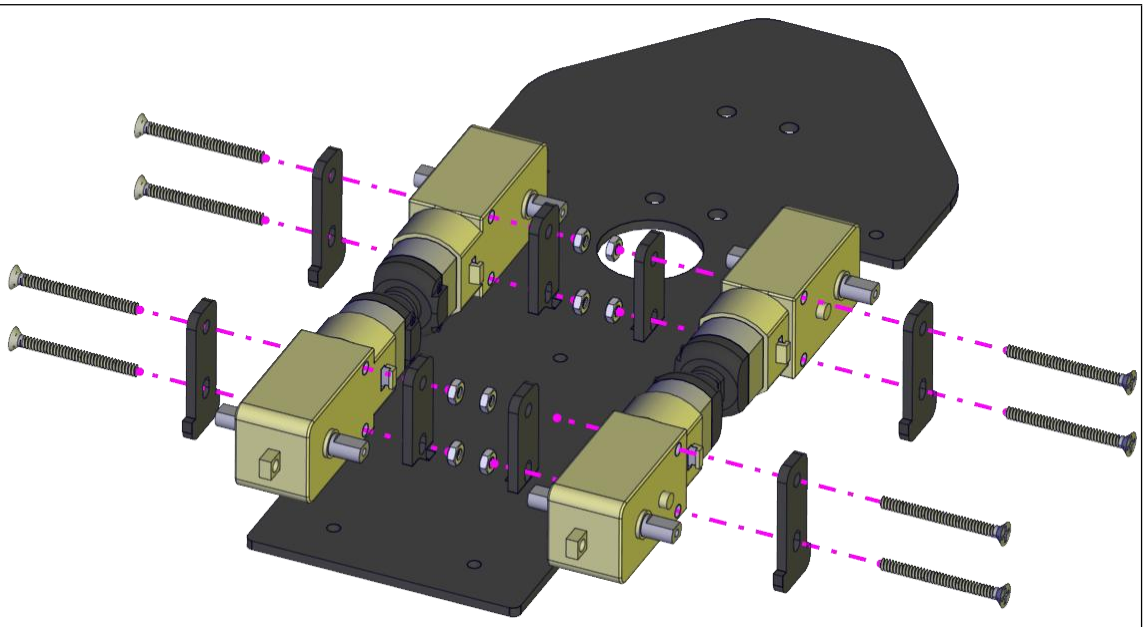
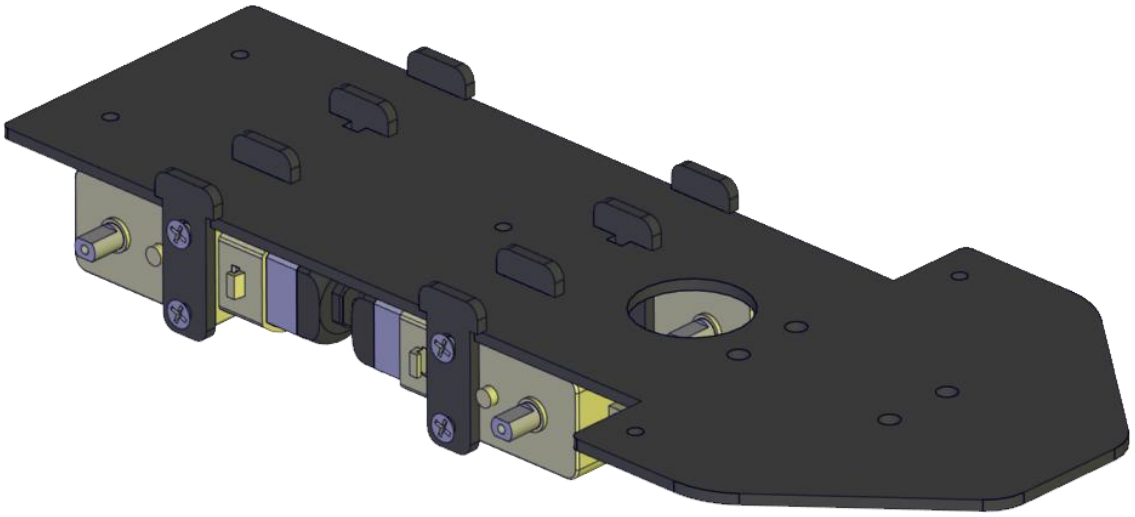
Acrylic plate is more brittle, installation needs to be careful and patient

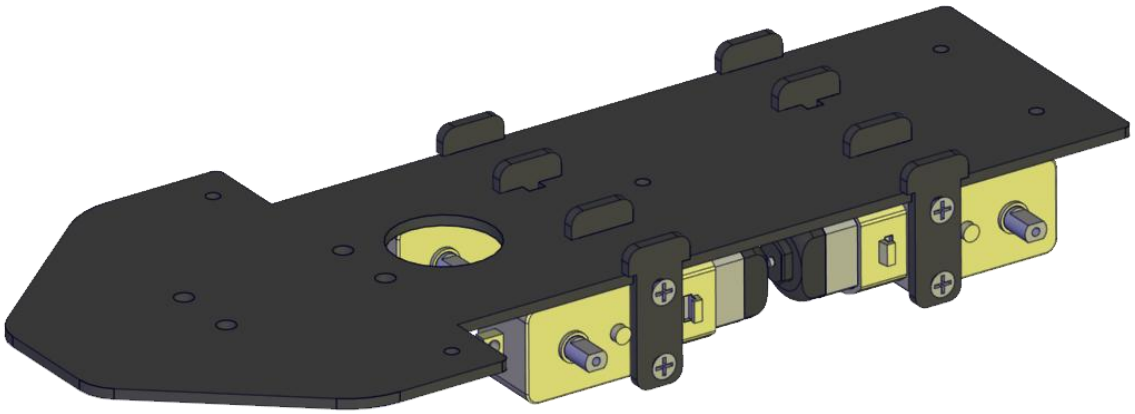
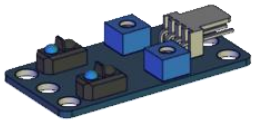
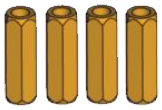
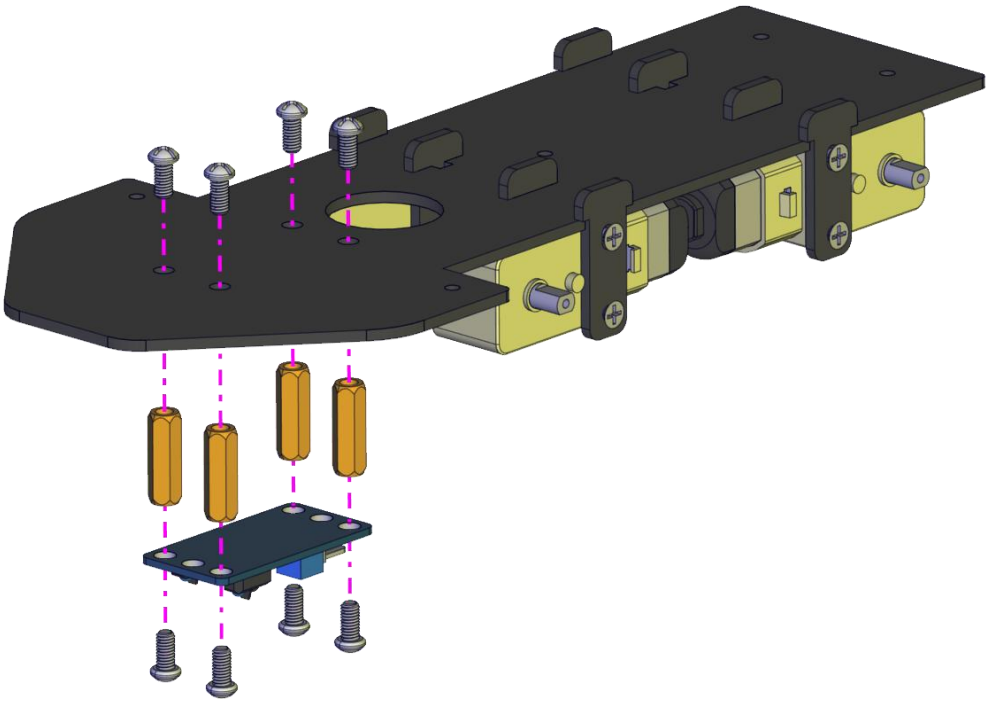
Installation 1	
Parts required for installation	
install	

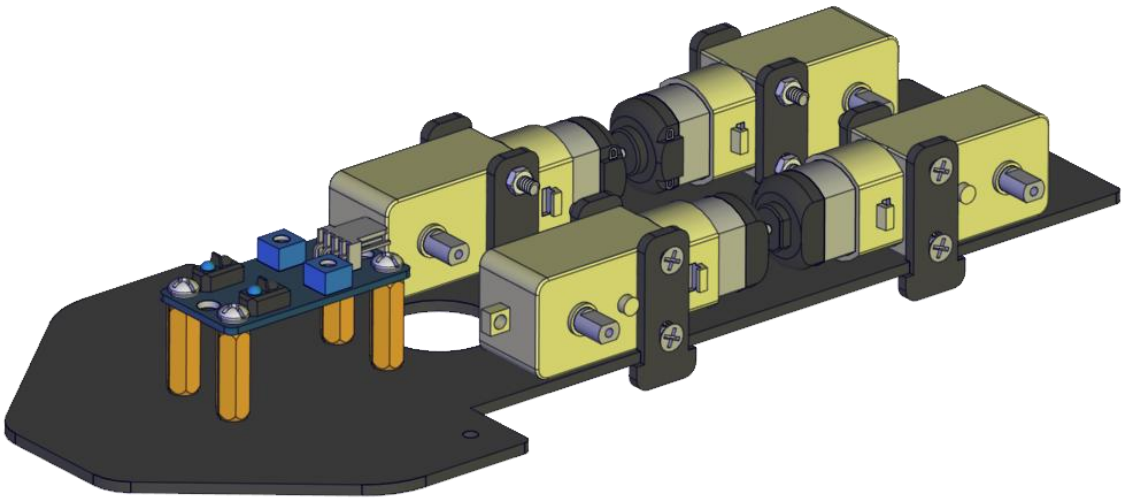
complete	

Installation 2

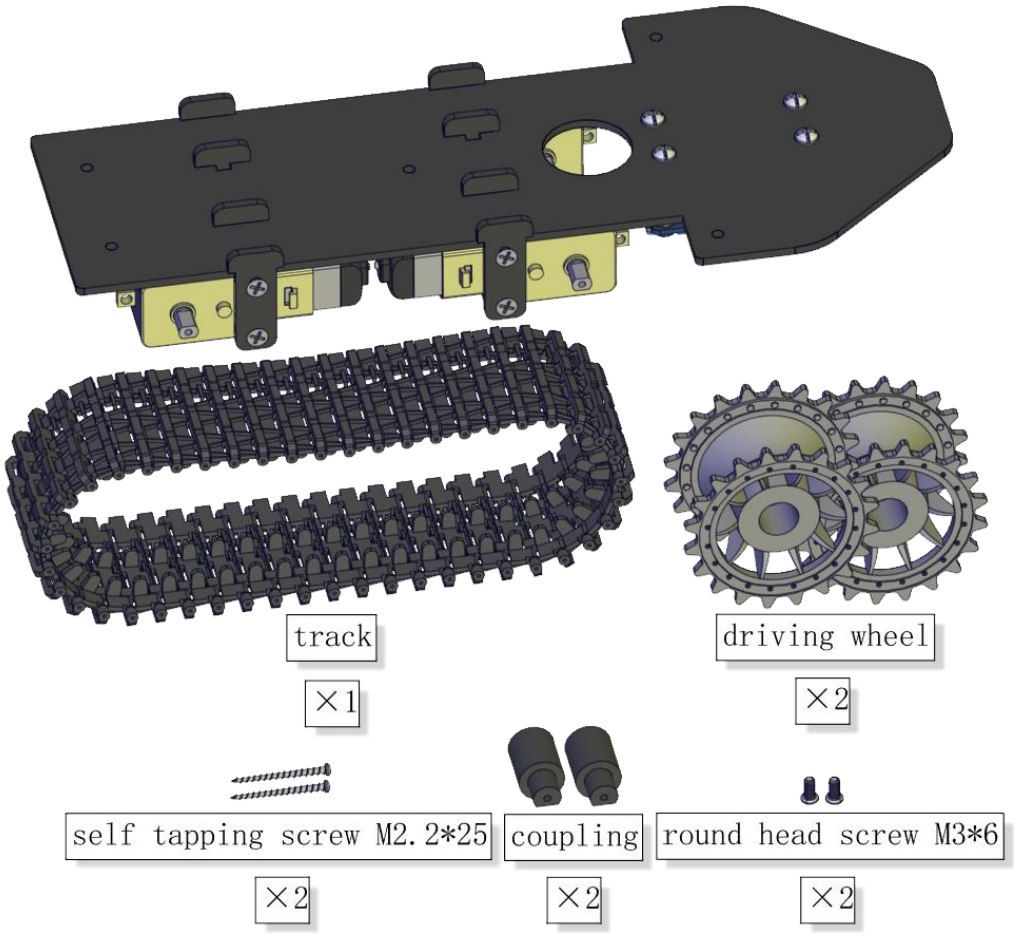
Parts required for installation	  nut M3 ×8  motor ×4  Acrylic ba ×4  flat head screw M3*30 ×8

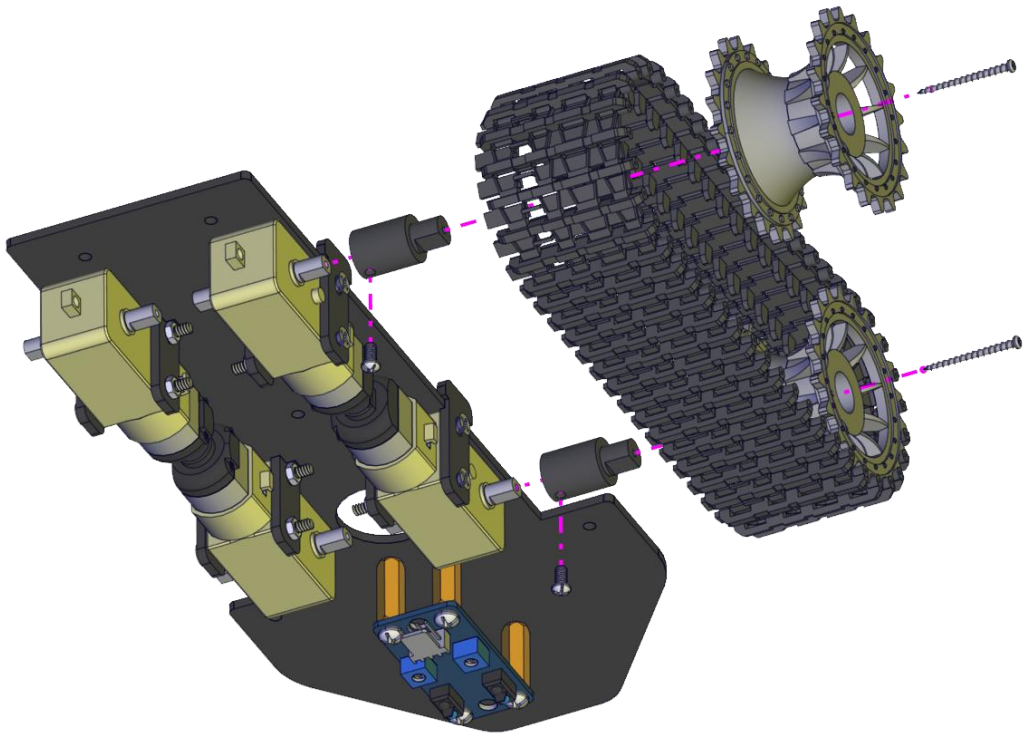
Install (Note that the wire of the motor faces inward)	
complete	
Installation 3	

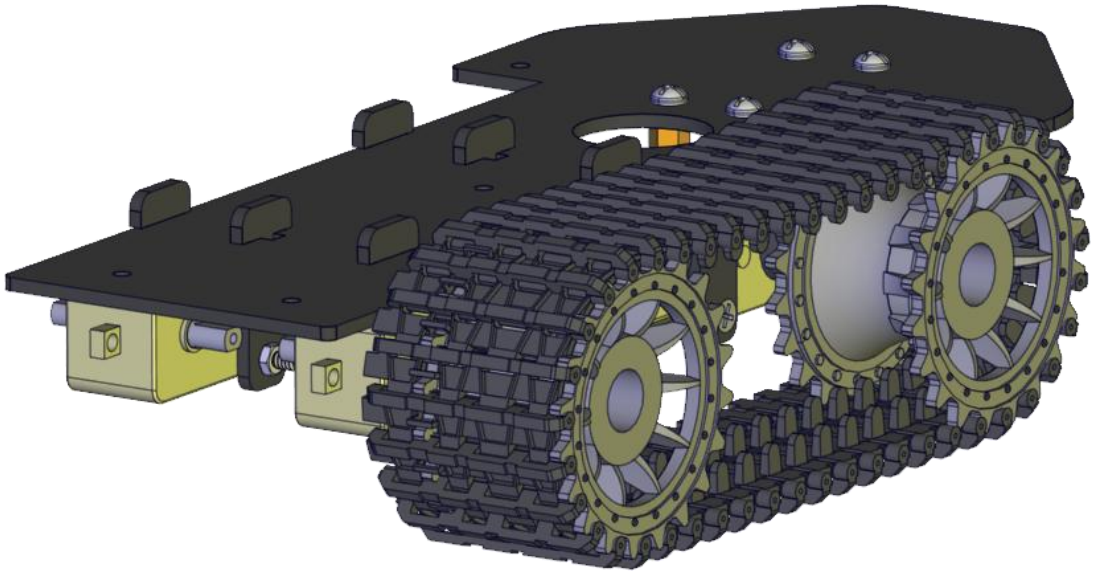
Parts required for installation	  tracking module ×1  copperpillar M3*20 ×4  round head screw M3*8 ×8
install	

complete	

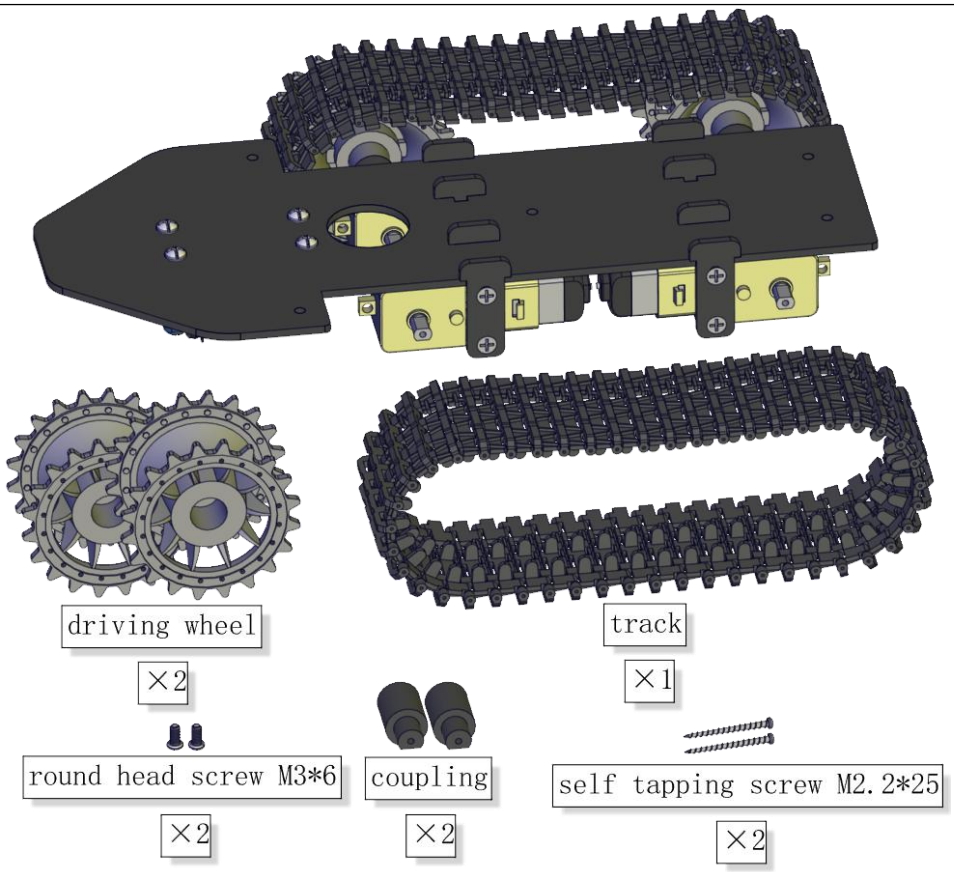
Installation 4

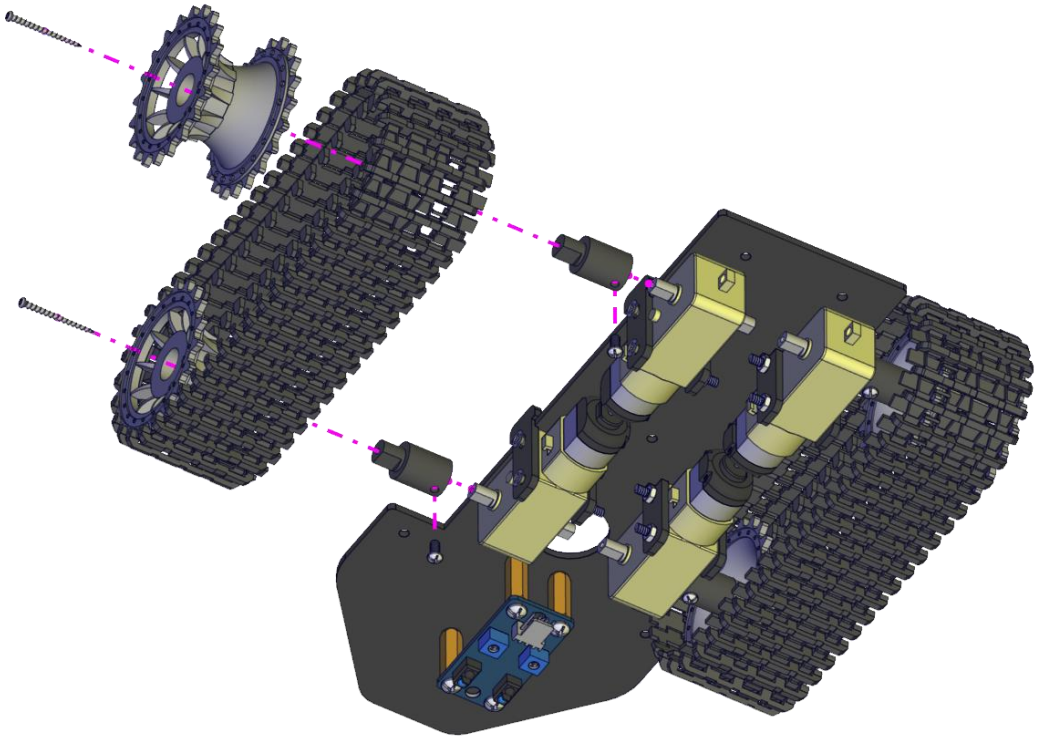
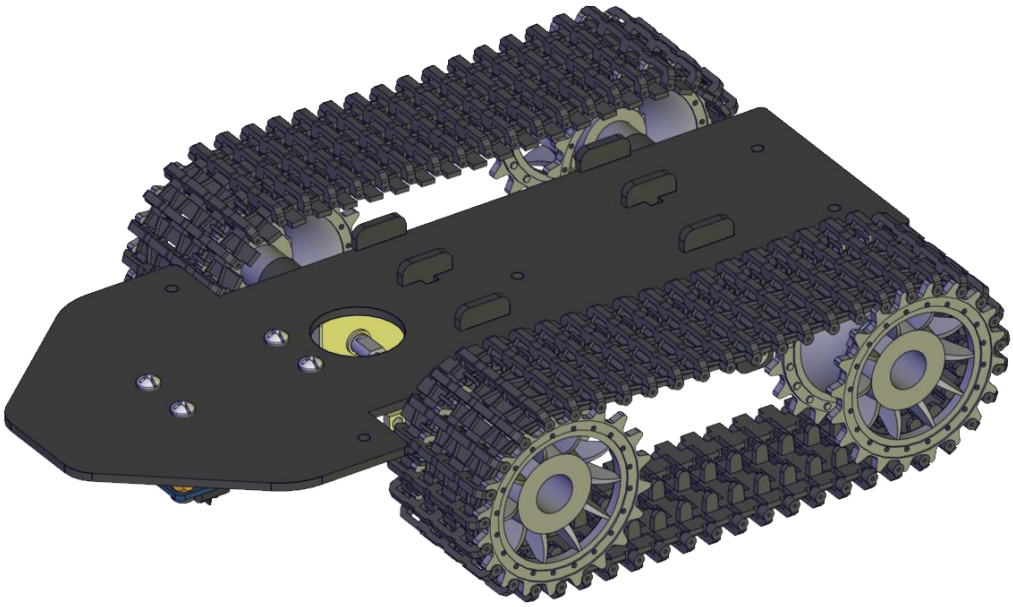
Parts required for installation	

Install (Pay attention not to lock the tapping screw too tightly)	 Installation Instructions: 1. Install the coupling for two motor shafts. 2. Install the tracks on the two drive wheels. 3. Install the drive wheel not installed on the coupling.

complete	

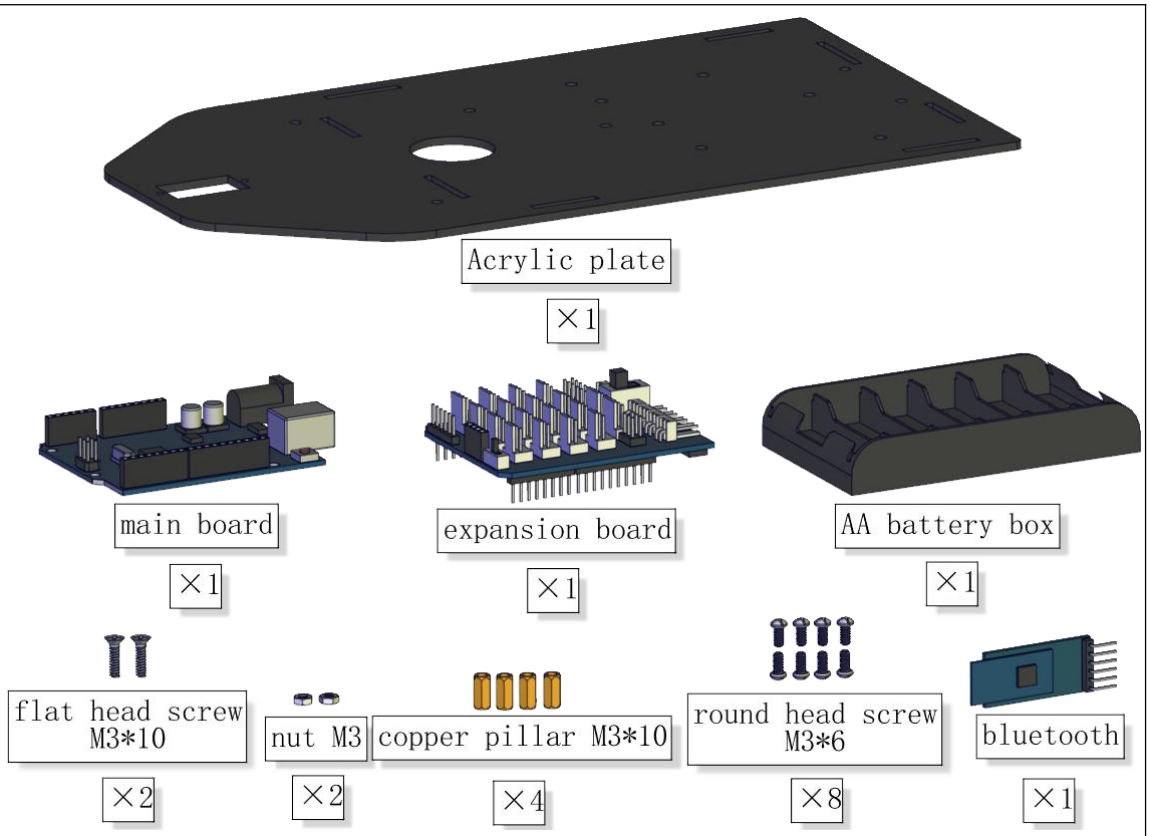
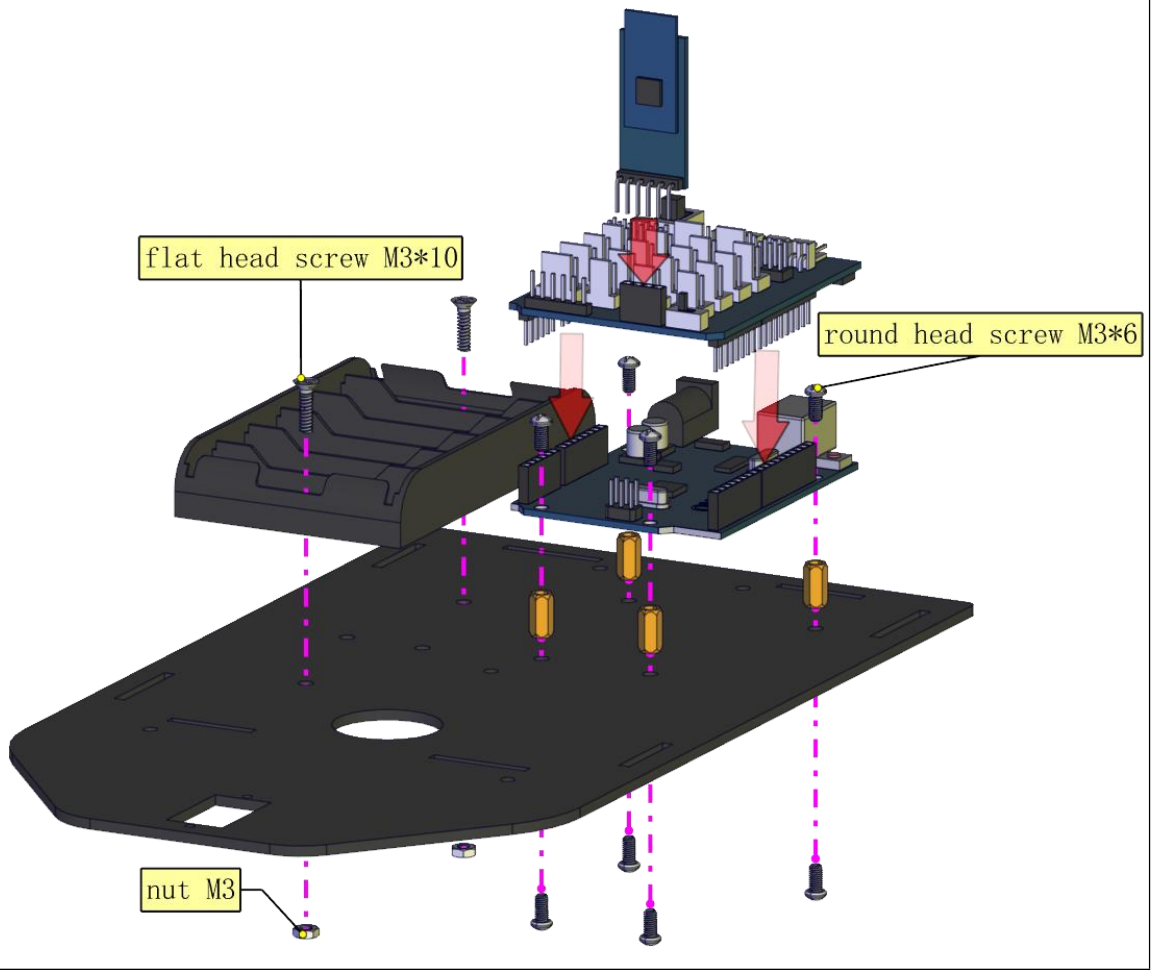
Installation 5

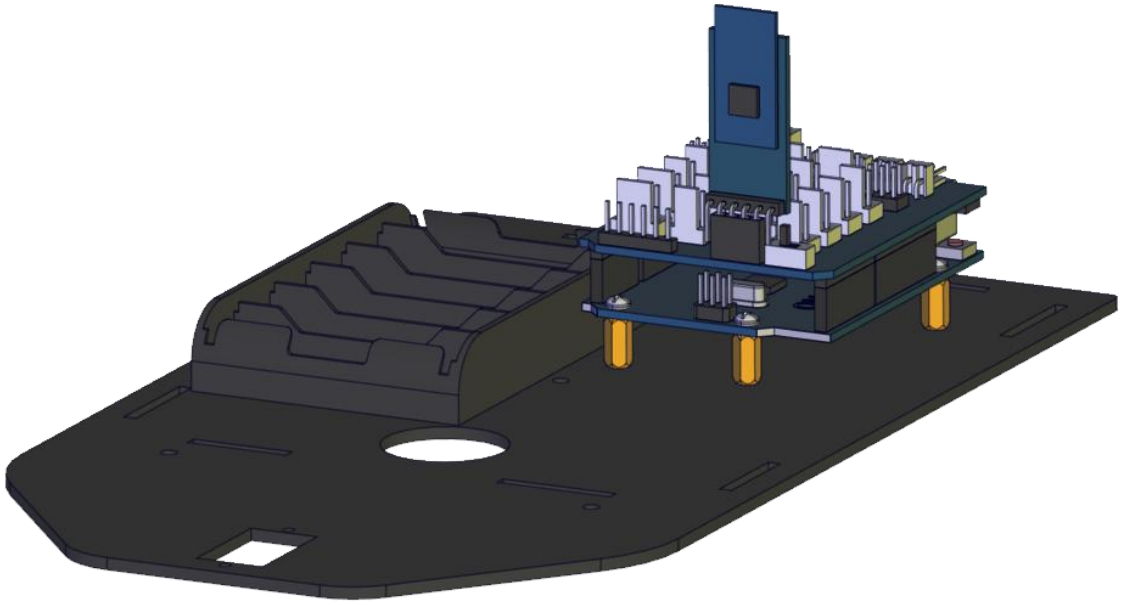
Parts required for installation	

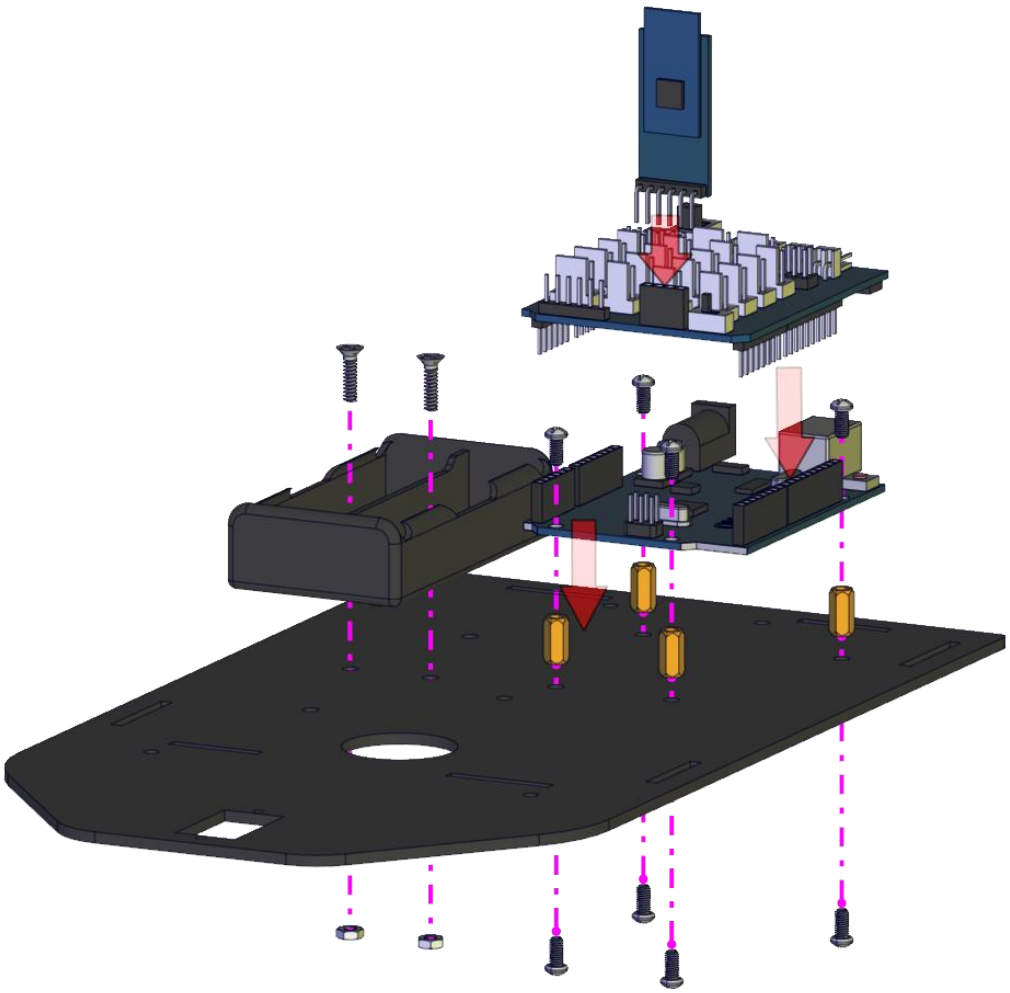
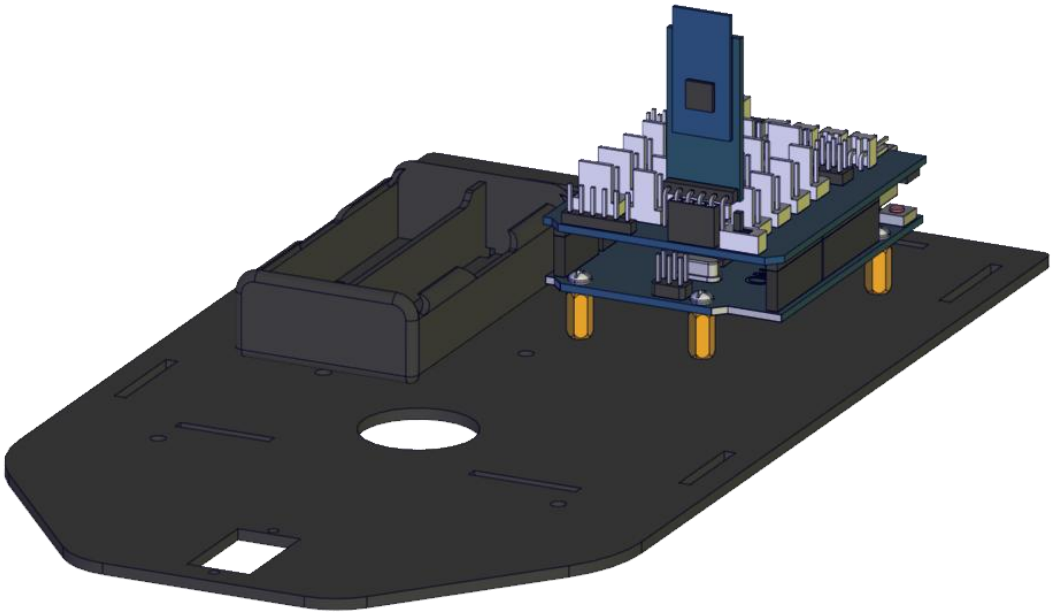
install (Pay attention not to lock the tapping screw too tightly)	
complete	

Installation 6

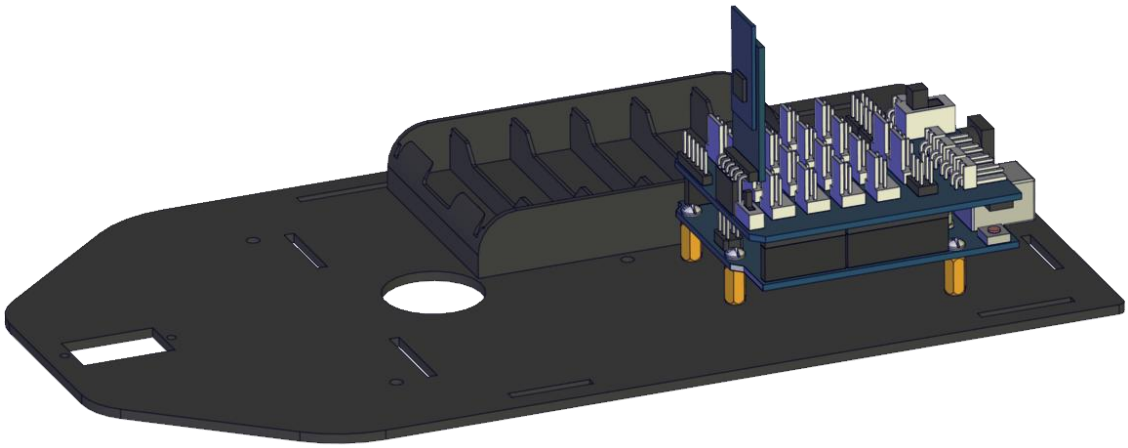
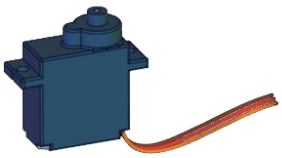
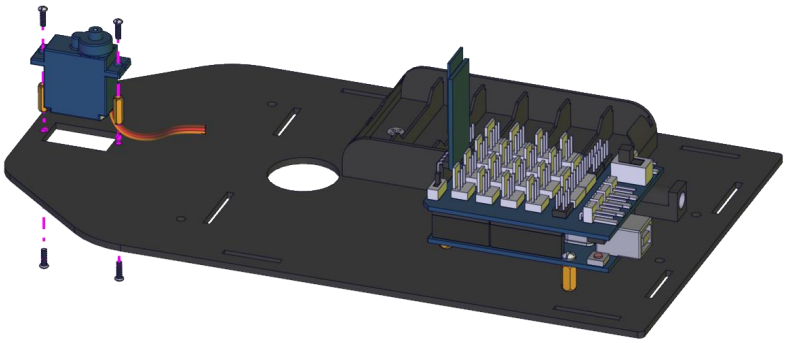
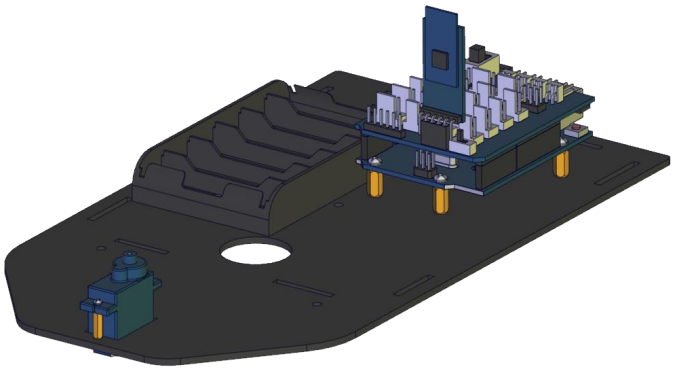
To install 18650 battery box, see Installation 7

Parts required for installation	
Install (Pay attention to the installation direction of the Bluetooth module)	

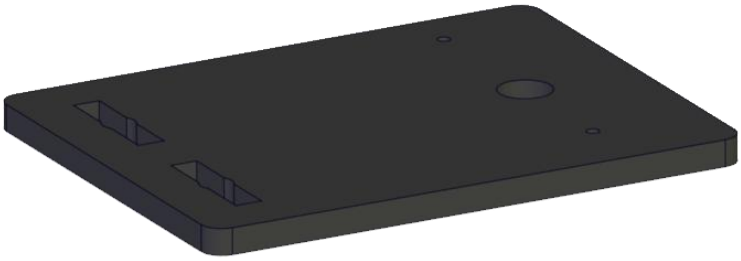
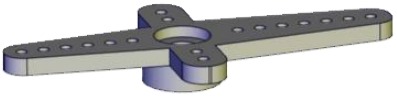
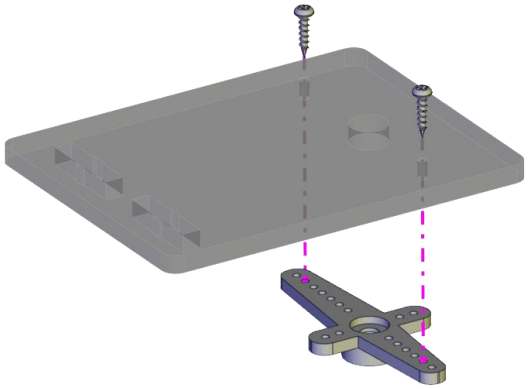
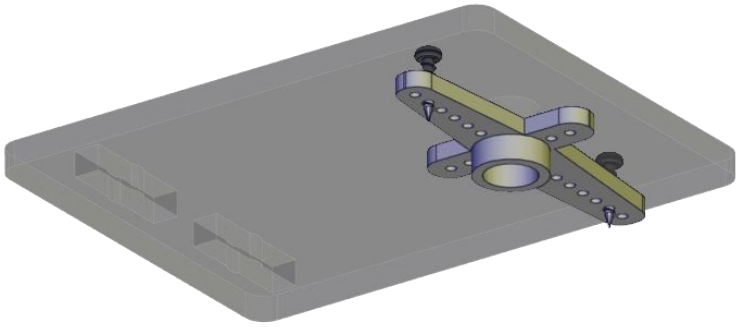
complete	
Installation 7	

Install 18650 battery box (Pay attention to the installation direction of the Bluetooth module)	
complete	

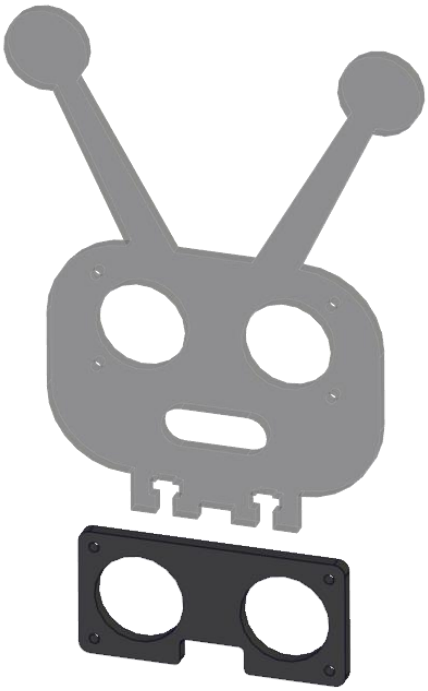
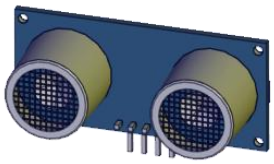
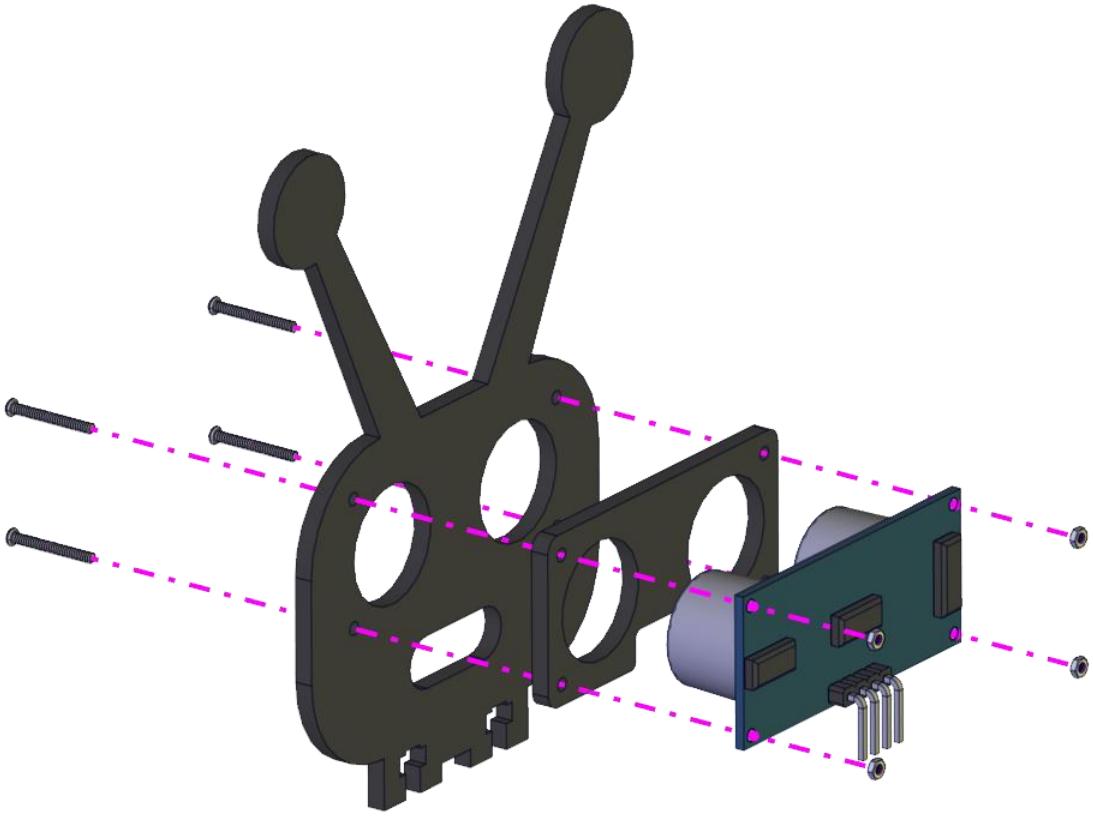
Installation 8

Parts required for installation	  steering engine ×1  copper pillar M2×10 ×2  round head screw M2×6 ×4
install	 First pass the wire of steering gear through the hole。
complete	

Installation 9

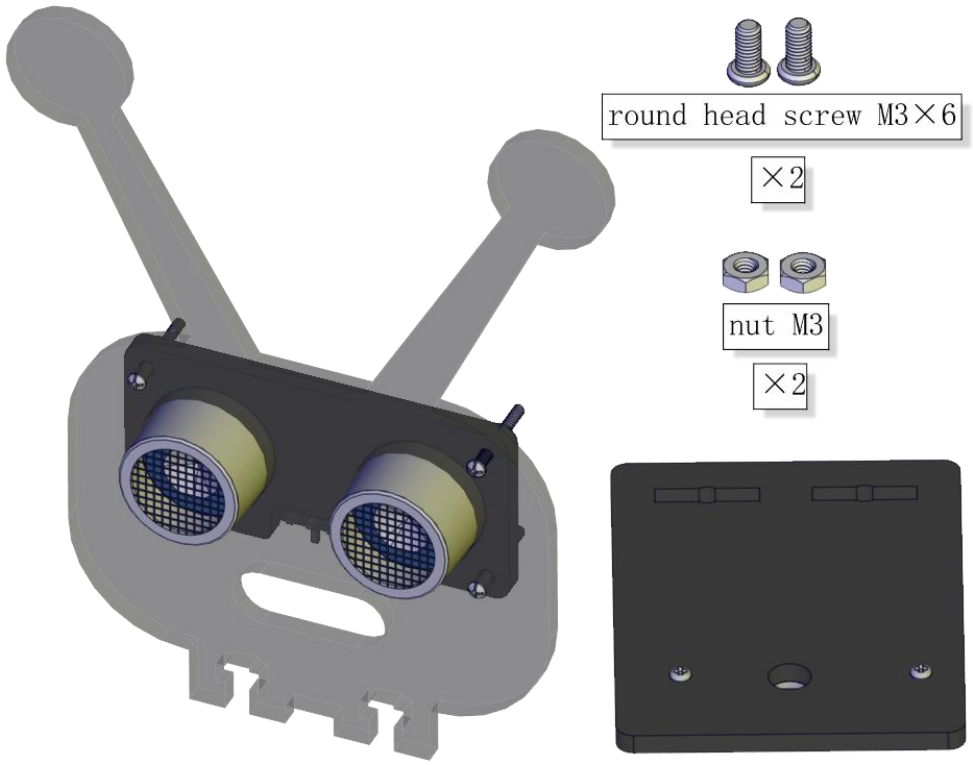
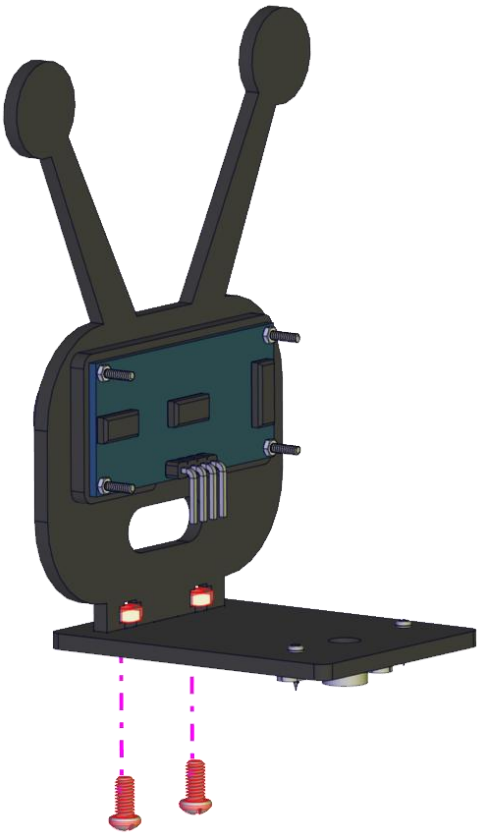
Parts required for installation	 Acrylic plate ×1  self tapping screw M1.2×6 ×2  steering engine rocker arm (Included in steering engine package) ×1
install	
complete	

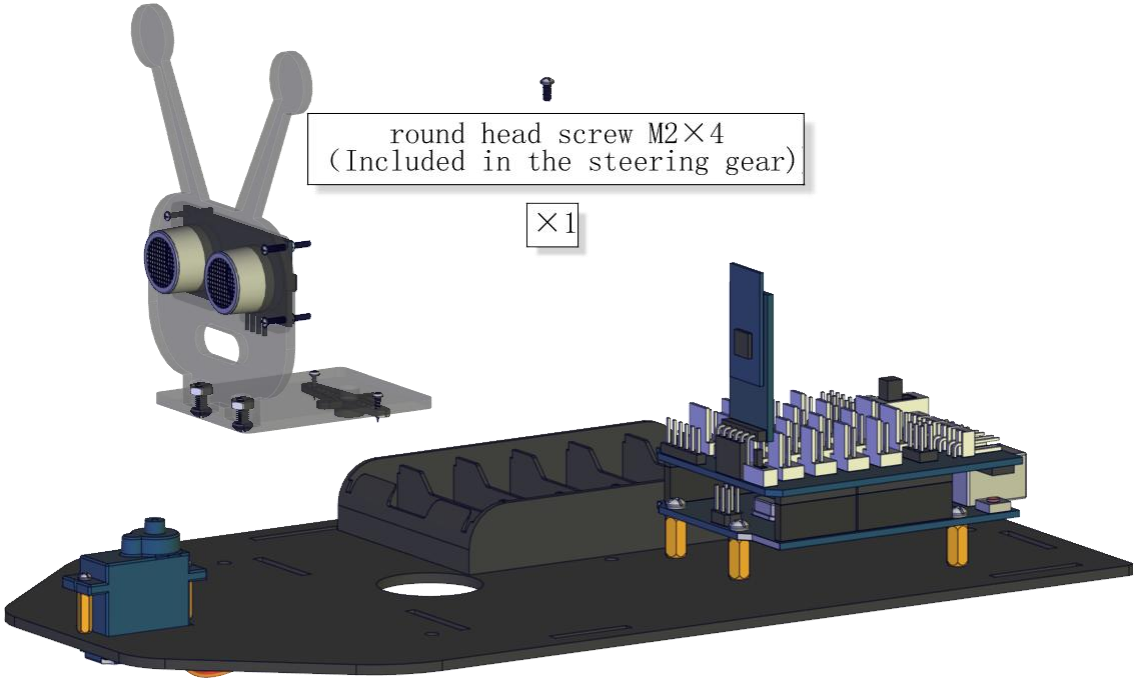
Installation 10

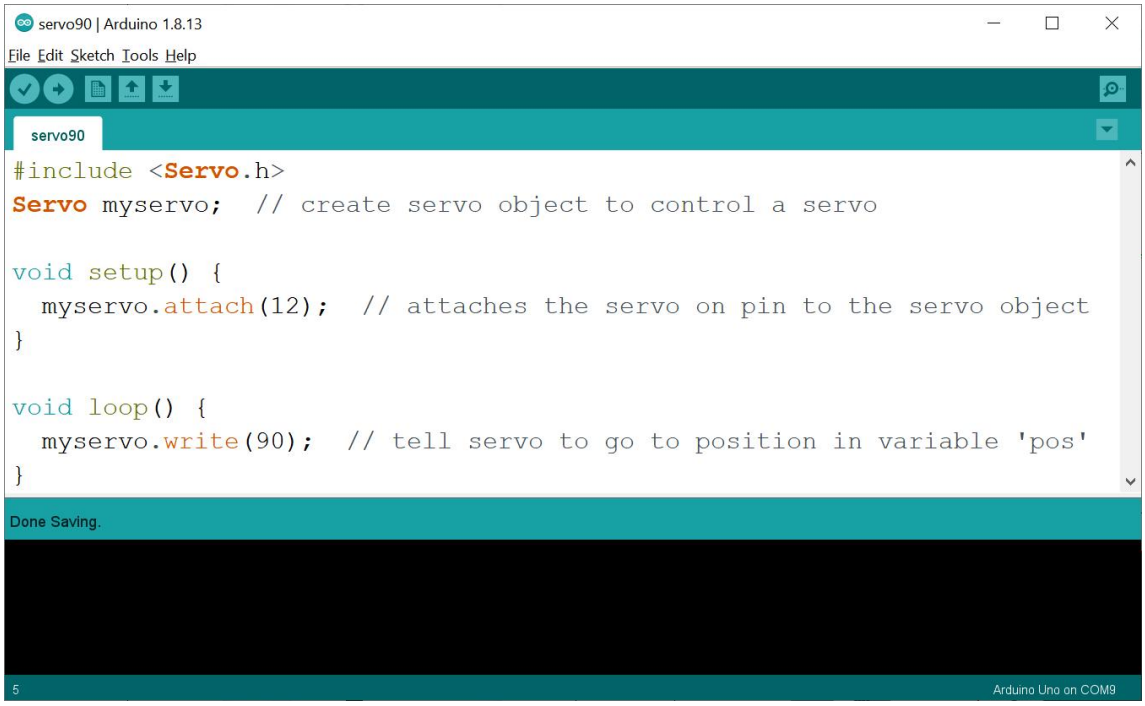
Parts required for installation	  Ultrasonic module ×1  round head screw M1.4×10 ×4  nut M1.4 ×4
install	

complete	

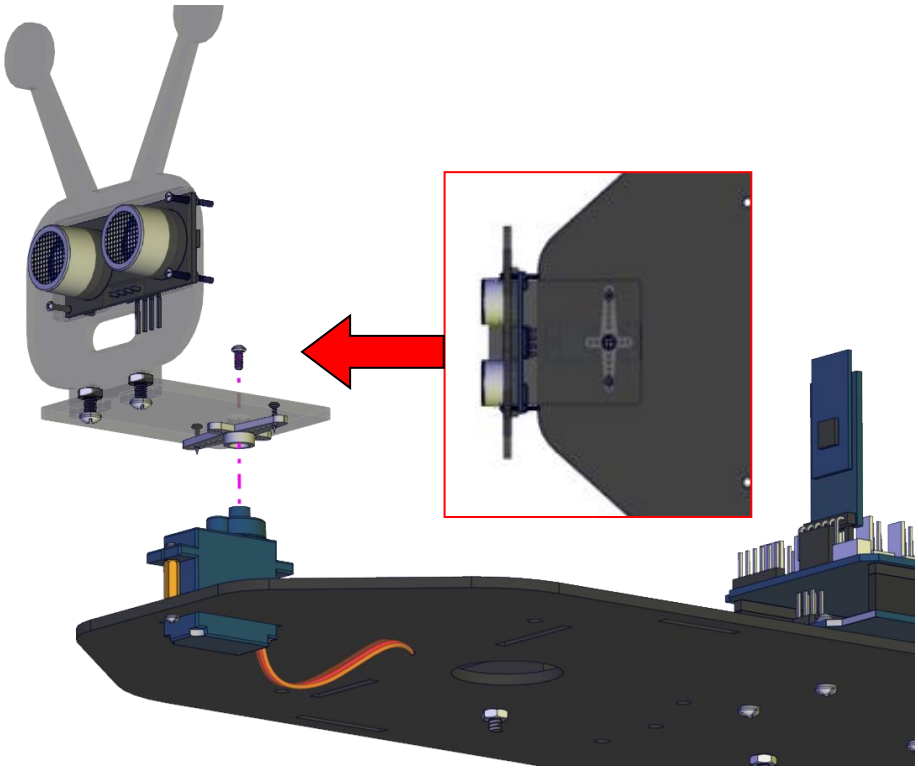
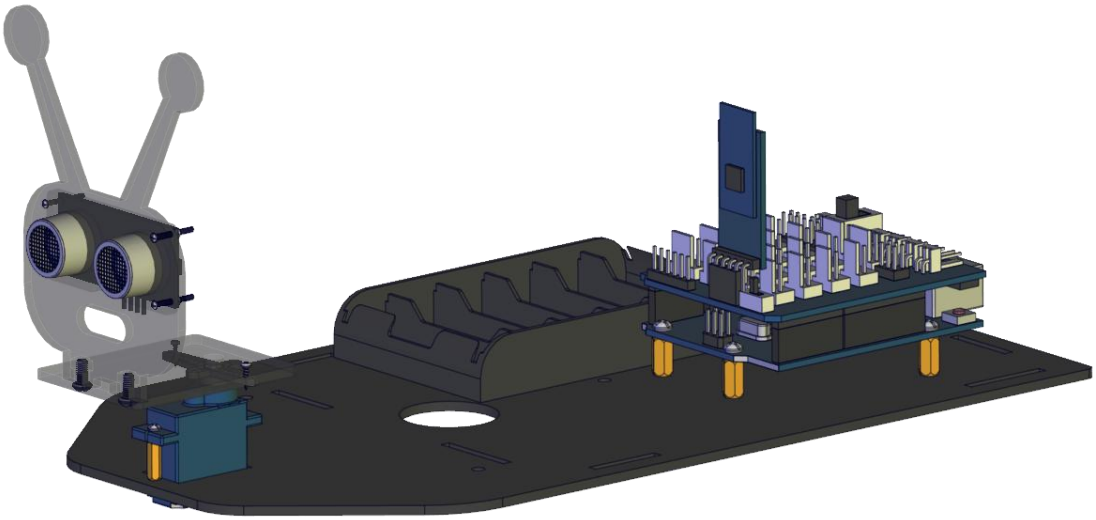
Installation 11

Parts required for installation	
Install	

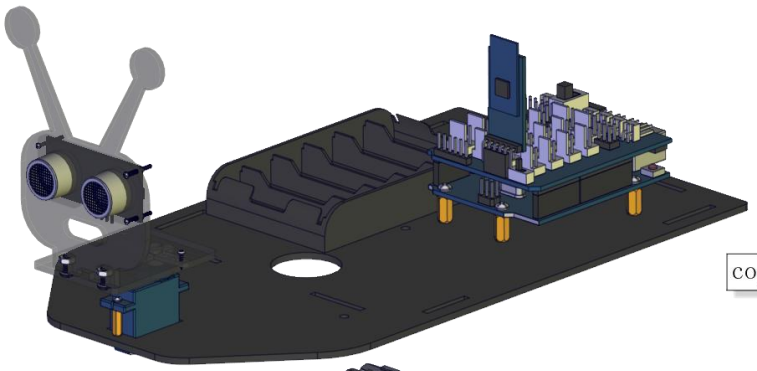
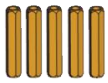
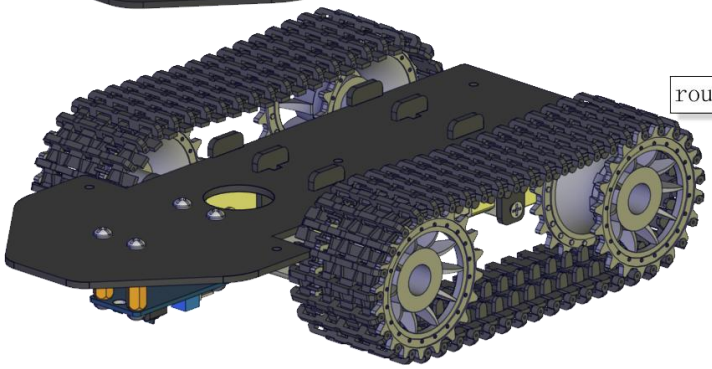
complete	
Installation 12	
Parts required for installation	

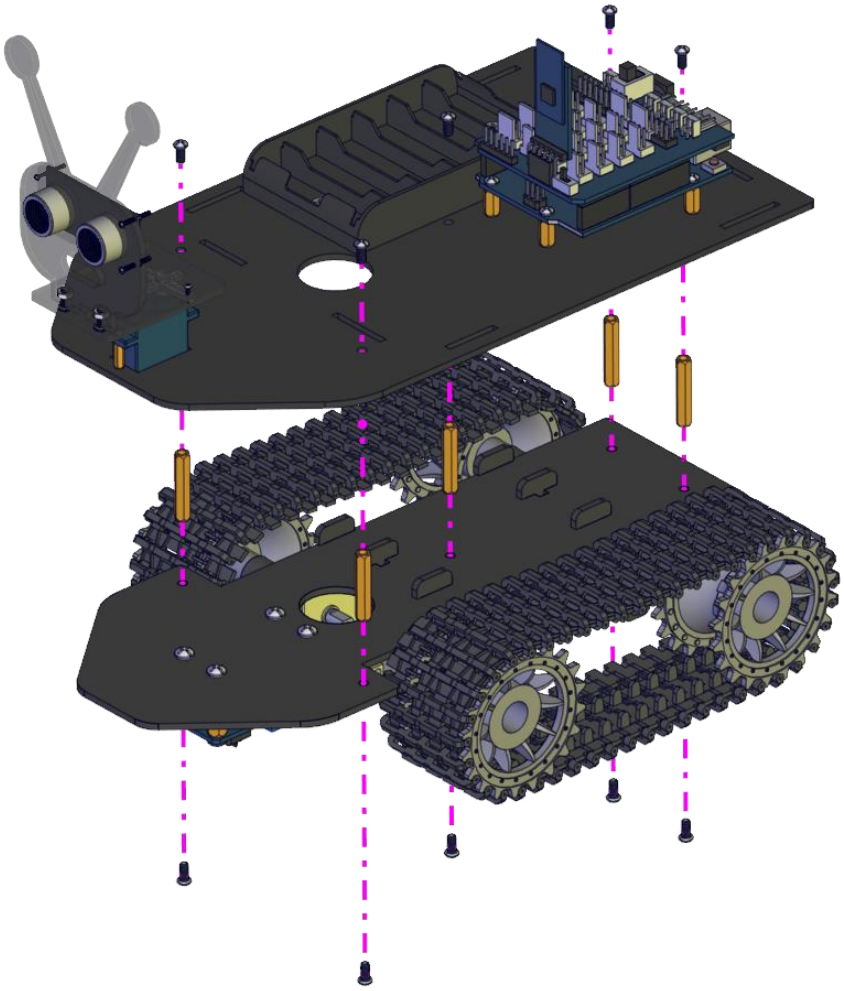
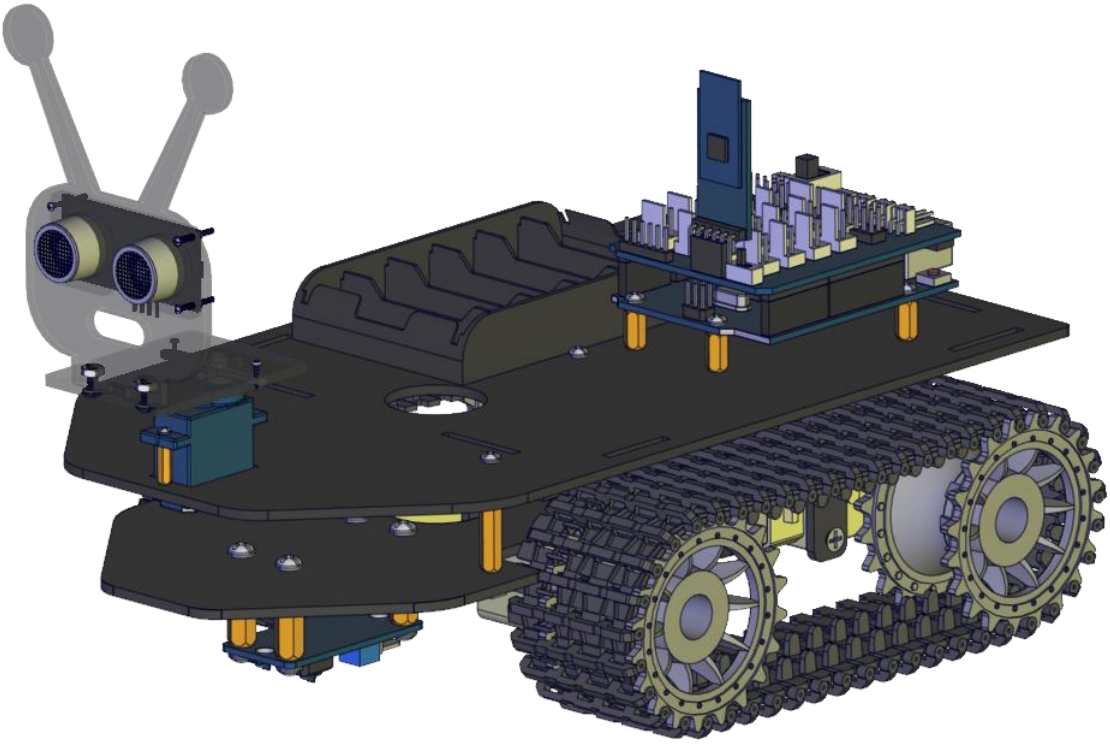
Write code before installation, and adjust the steering gear to 90 °	Connect the arduino UNO to your computer with a data cable, edit the following code in the arduino IDE, and click Upload code.  You can directly copy the following code:


```
#include <Servo.h>
Servo myservo;  // create servo object to control a servo

void setup() {
  myservo.attach(12);  // attaches the servo on pin 12 to the servo object
}

void loop() {
  myservo.write(90);  // tell servo to go to position
}
```

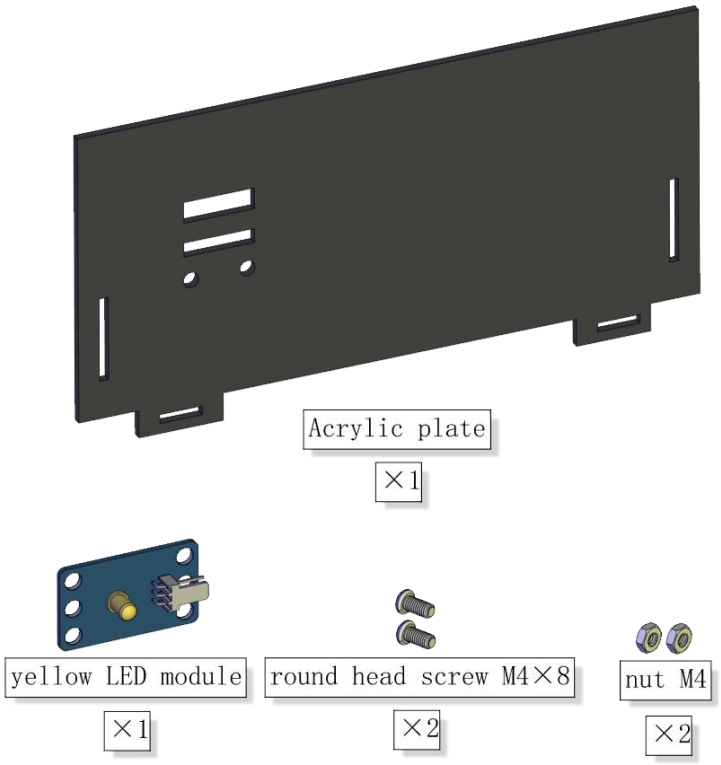
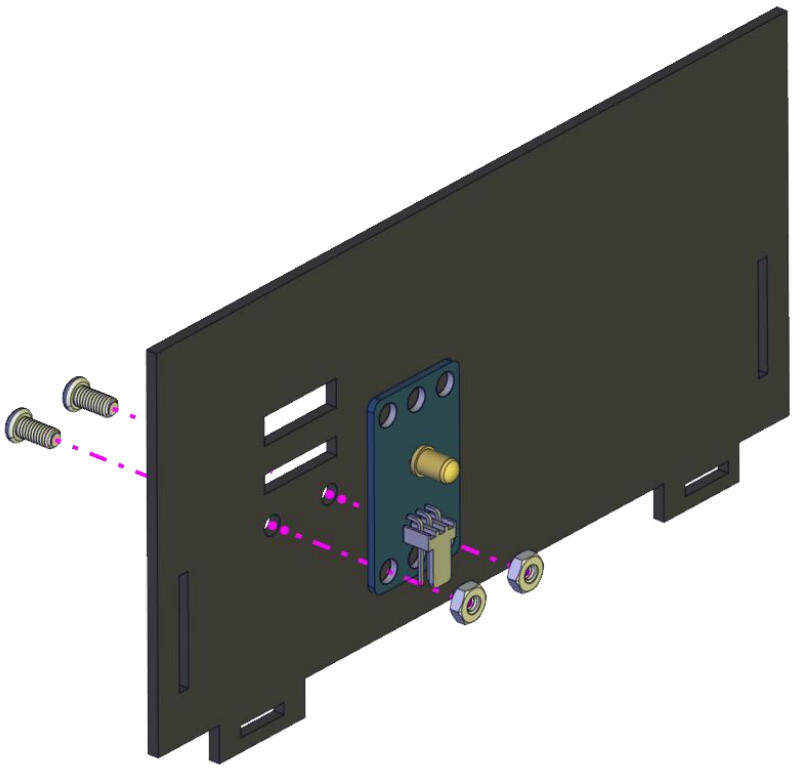
Install	(The installation angle shall be consistent with the figure) 
complete	

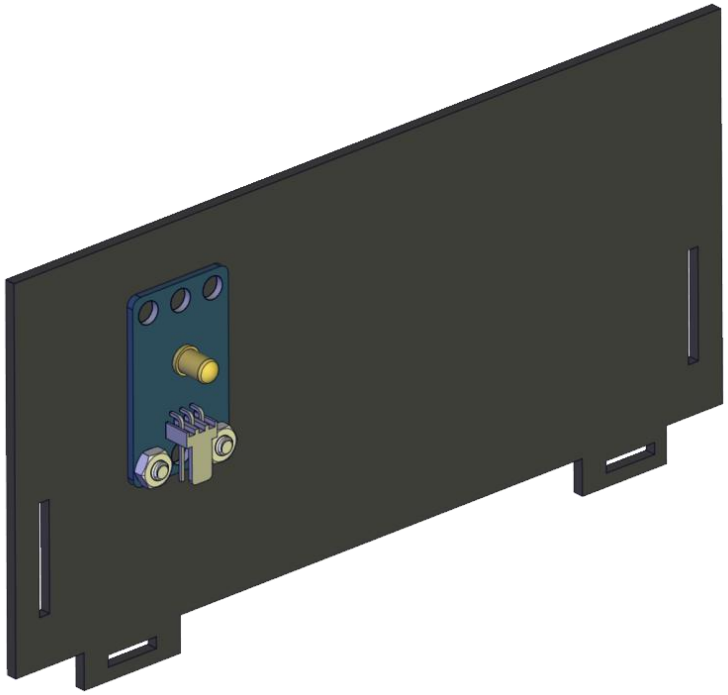
Installation 13

Parts required for installation	  copper pillar M3×25 ×5  round head screw M3×6 ×10 

Install	
complete	

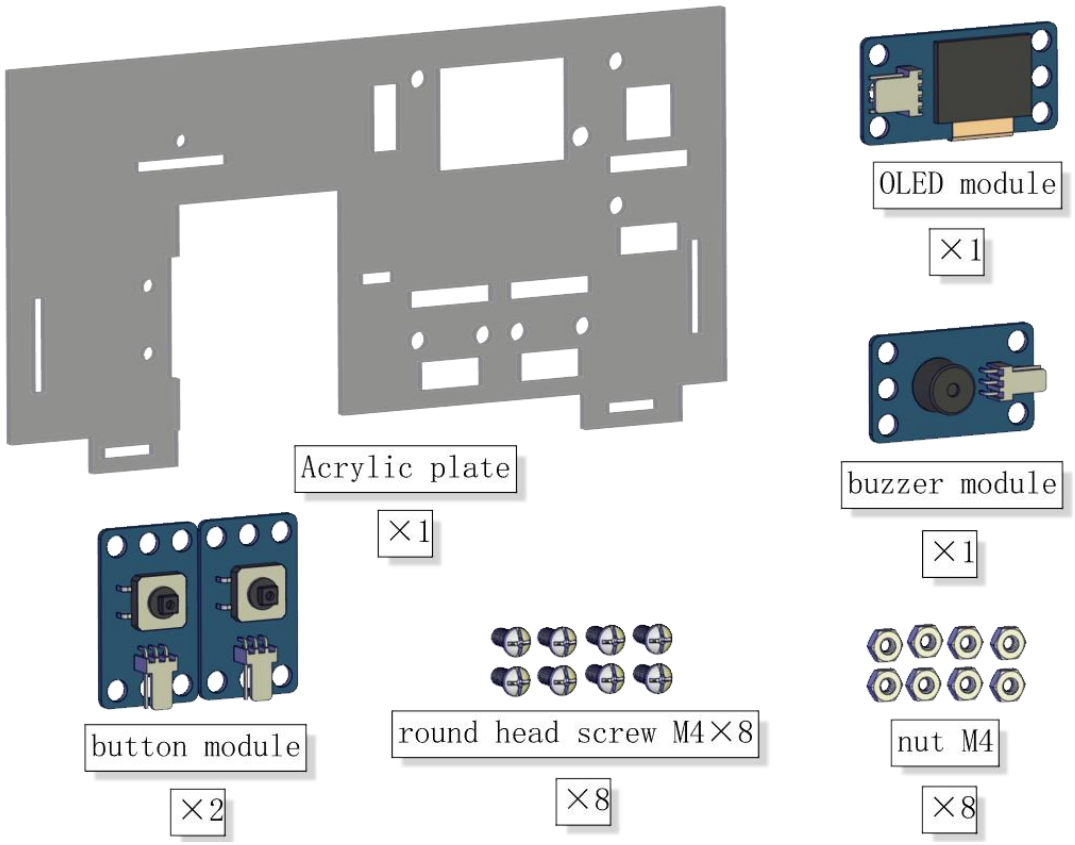
Installation 14

Parts required for installation	
install	

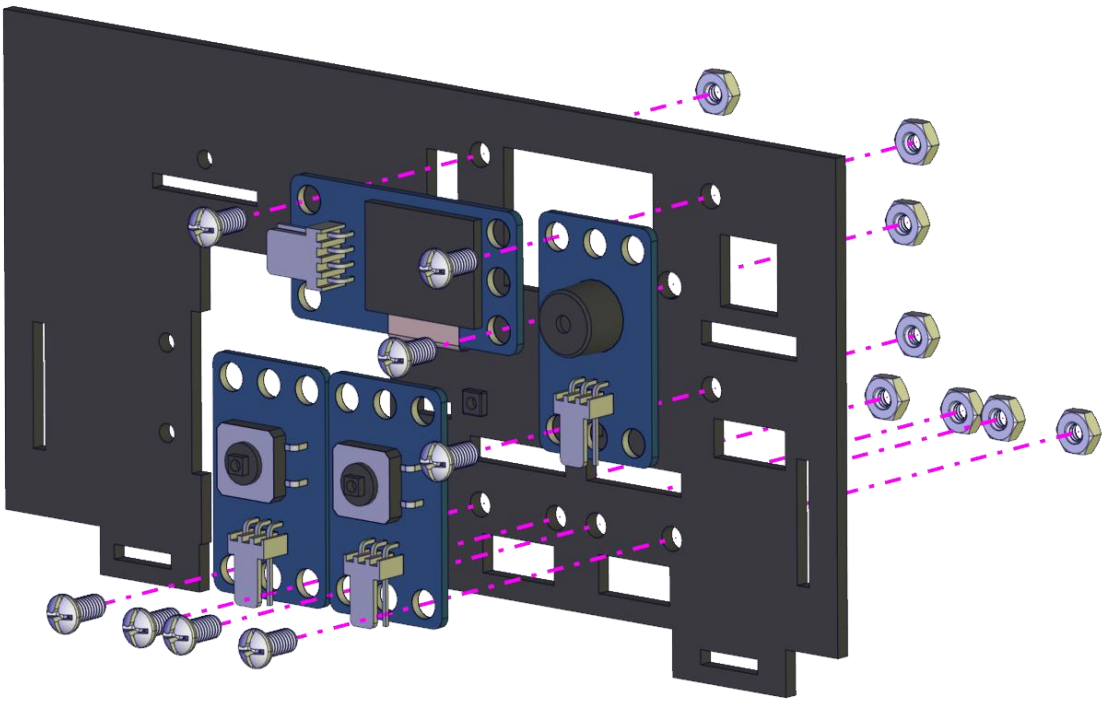
complete	

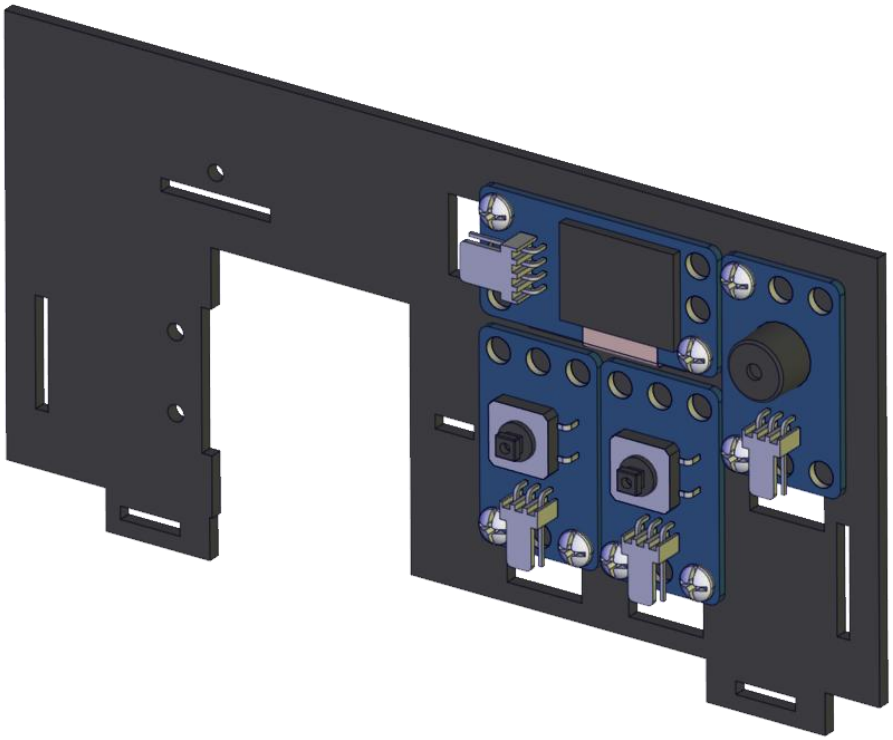
Installation 15

Parts required for installation

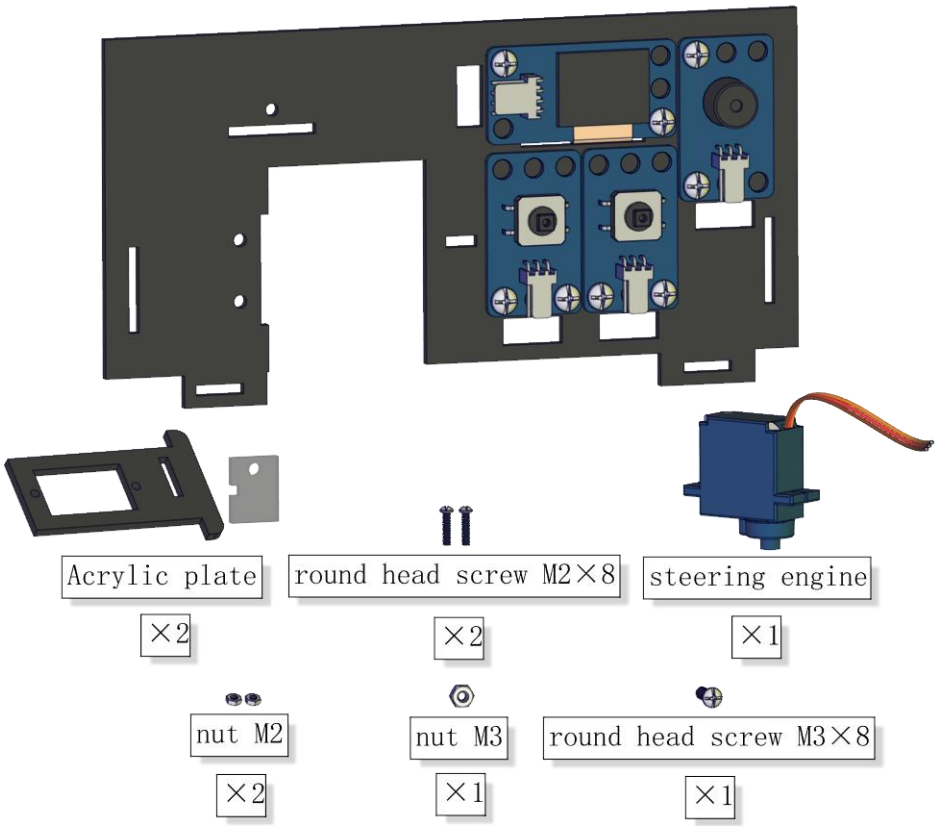
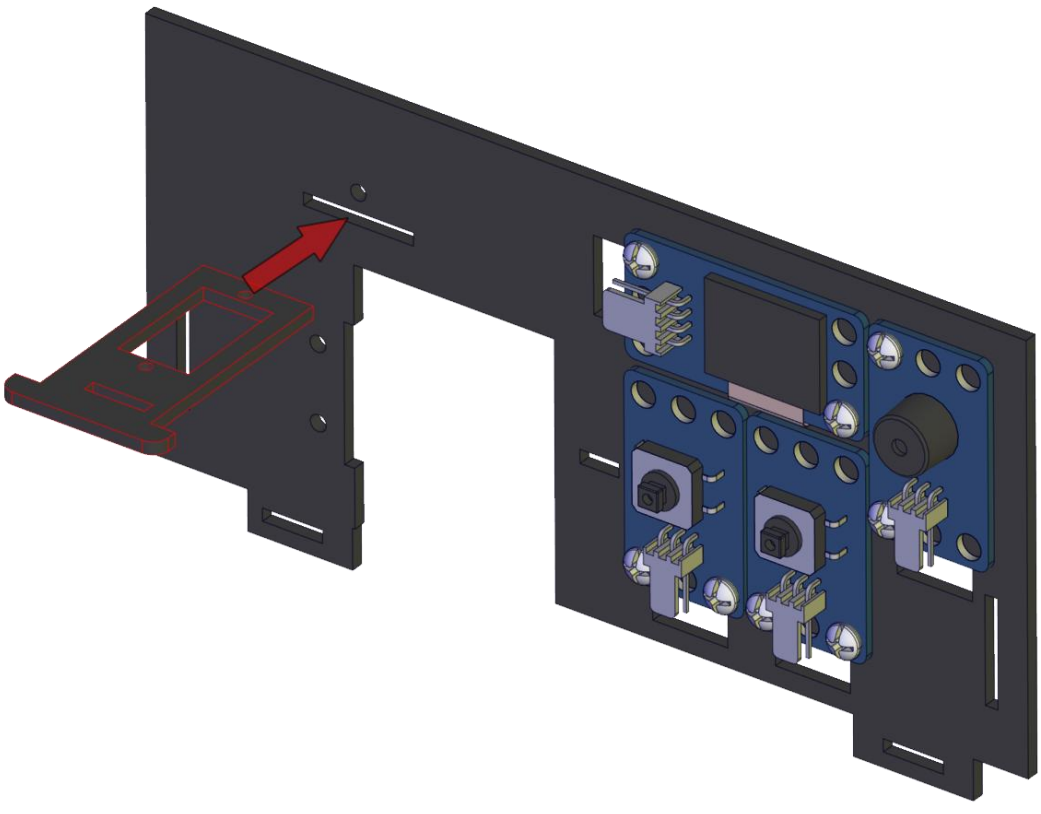


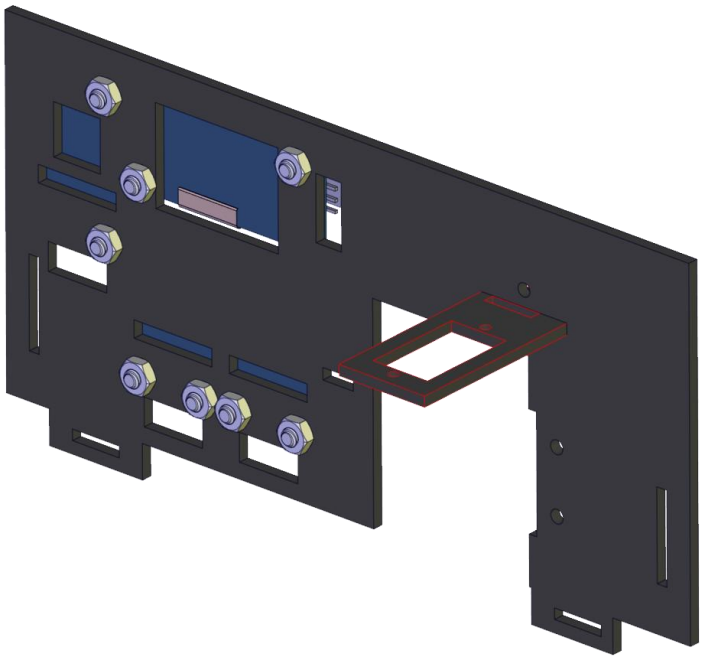
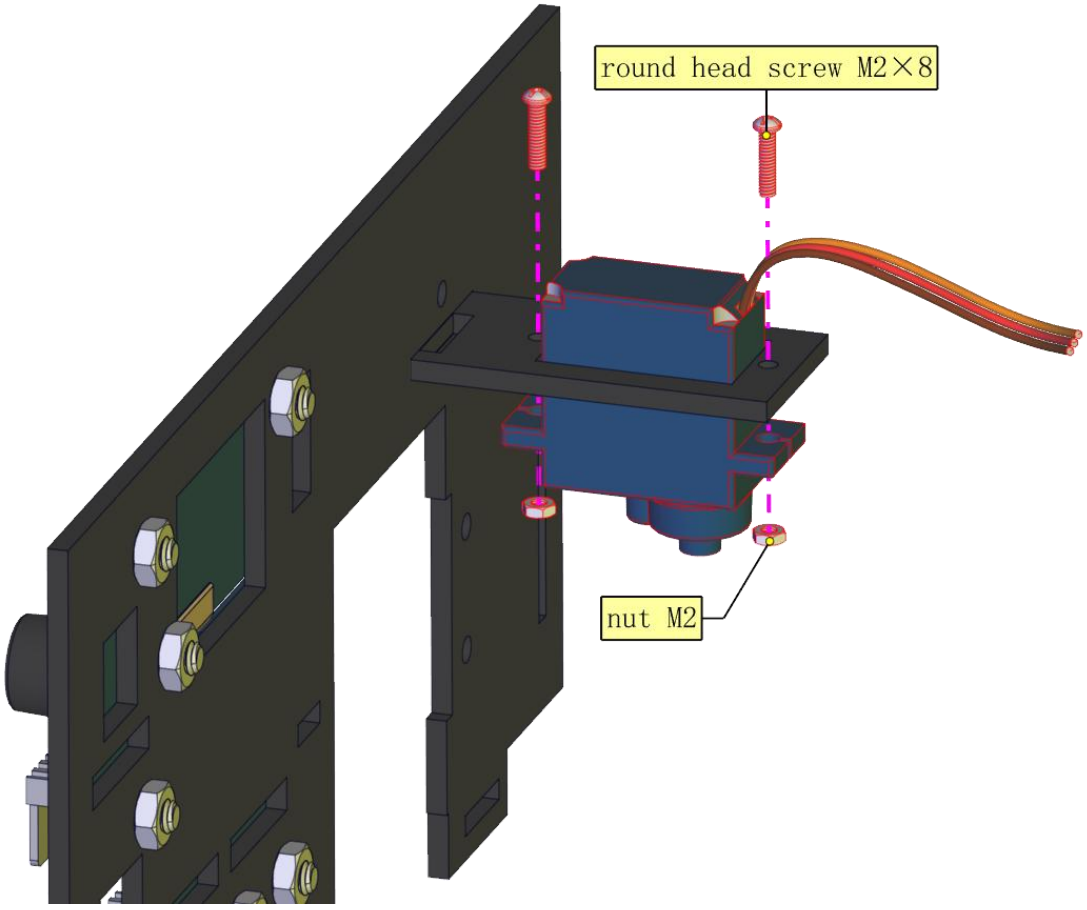
install

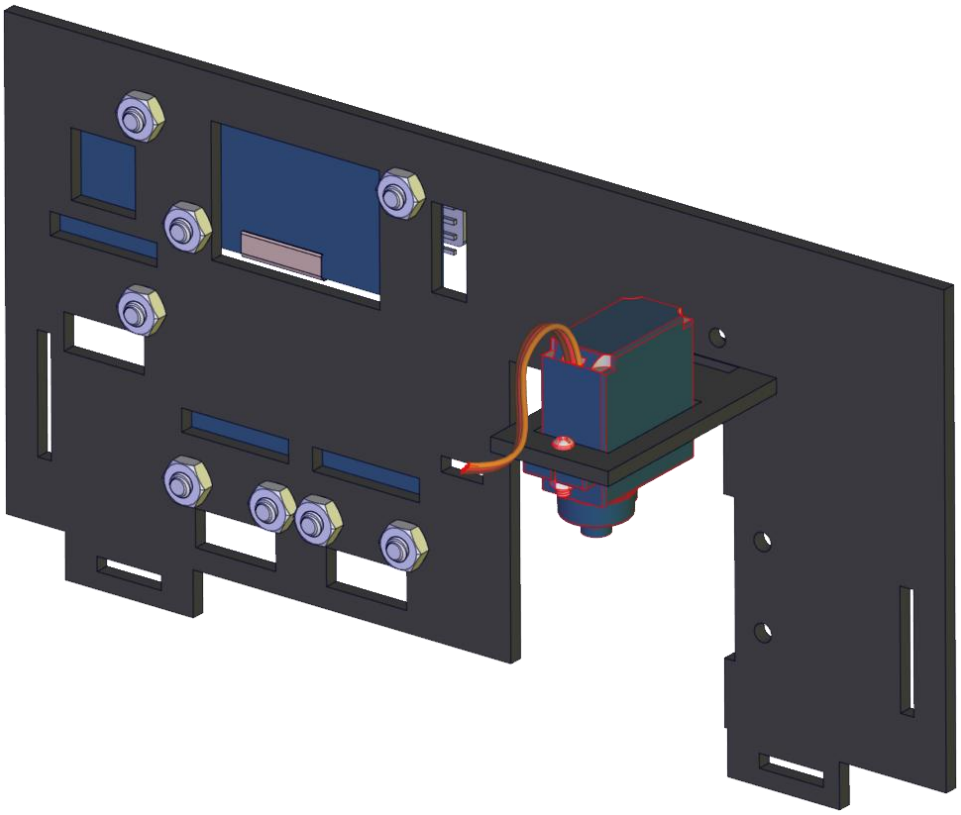
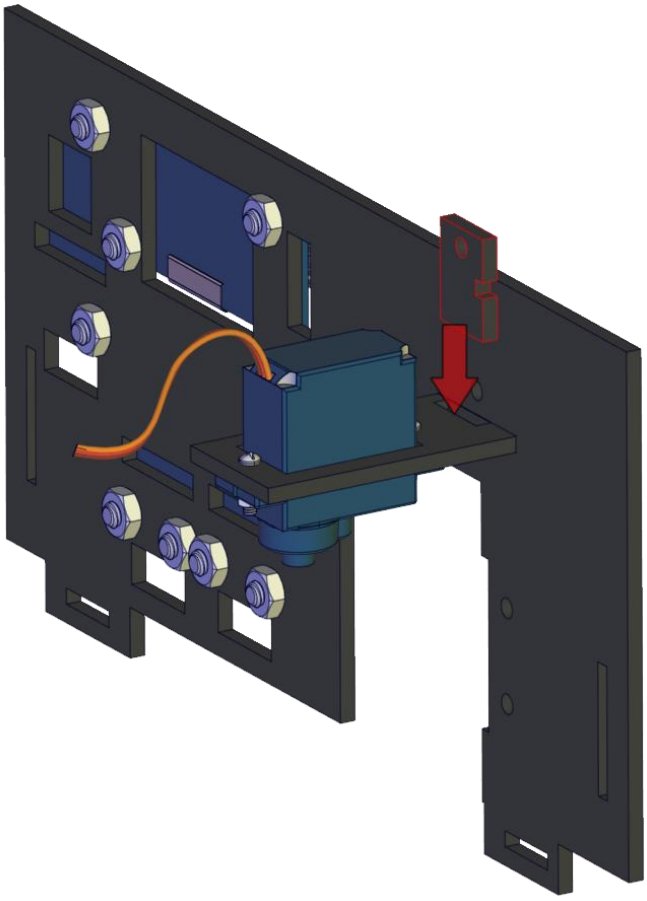


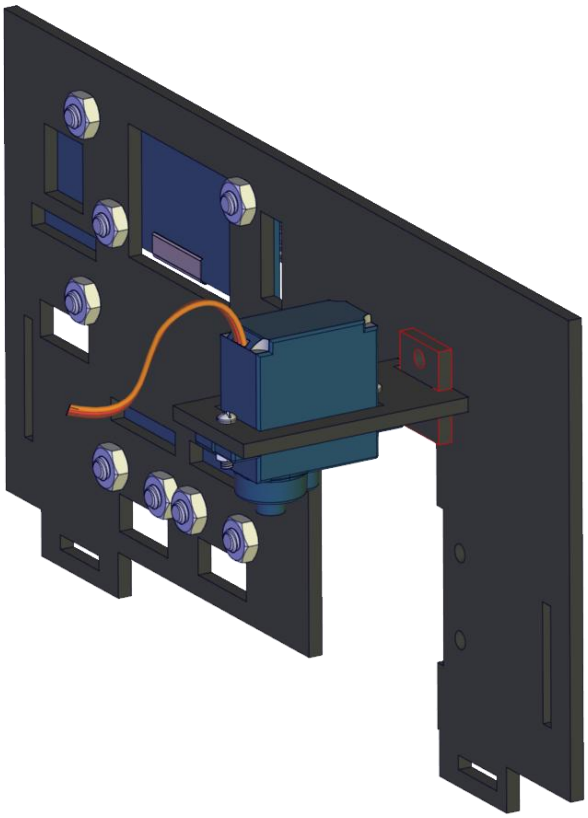
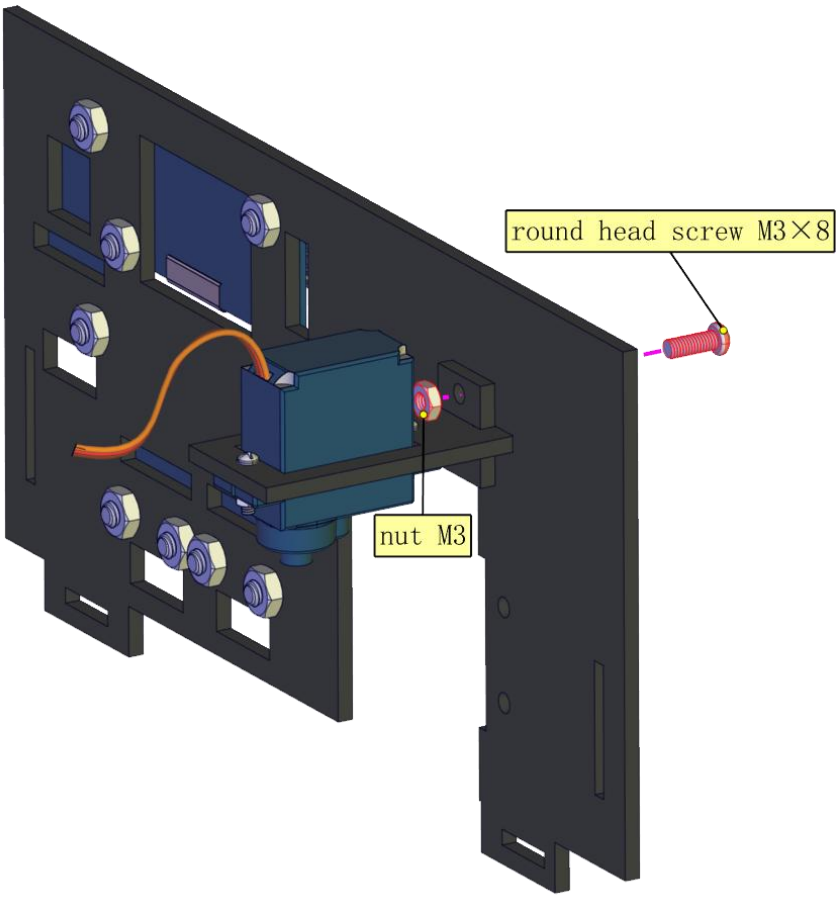
complete	

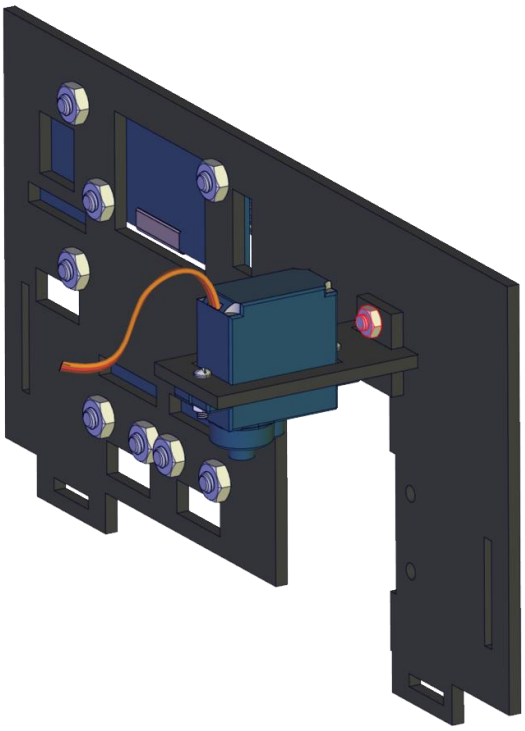
Installation 16

Parts required for installation	
Step 1	

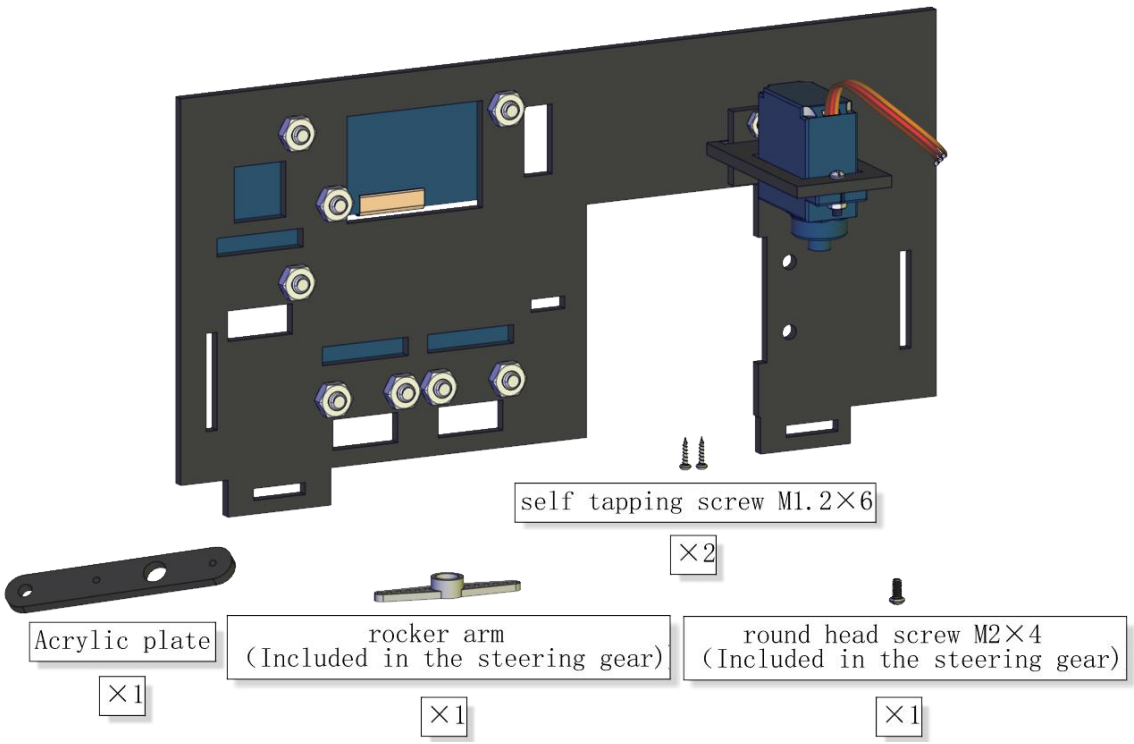
Step 1 complete	
Step 2	

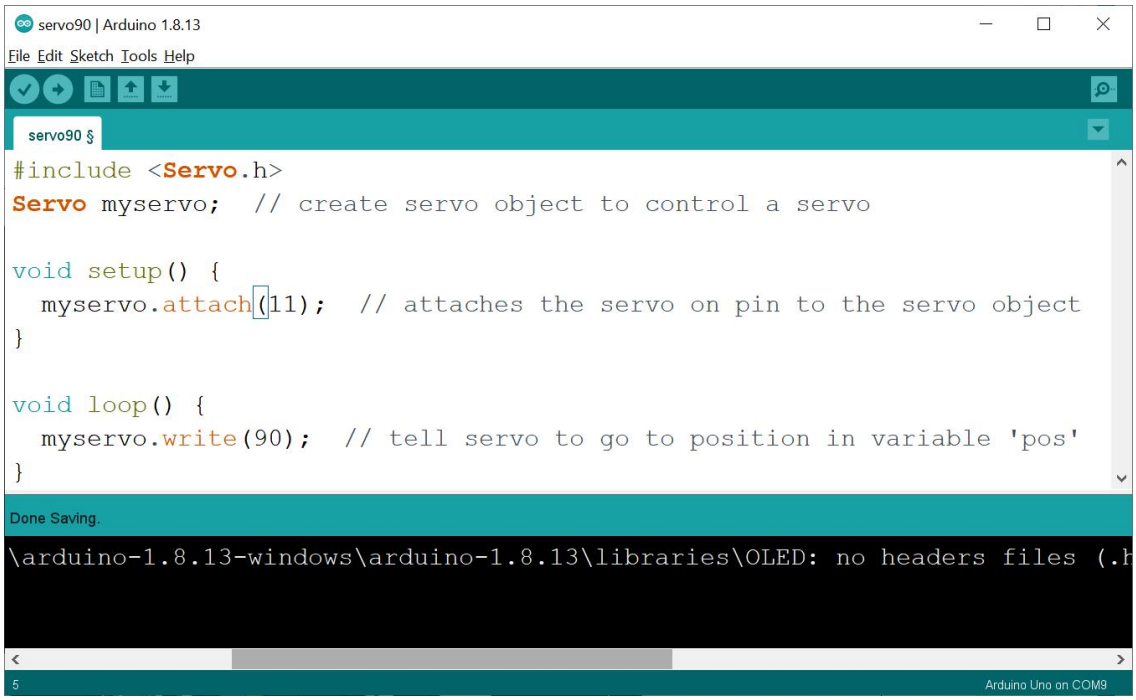
Step 2 complete	
Step 3	

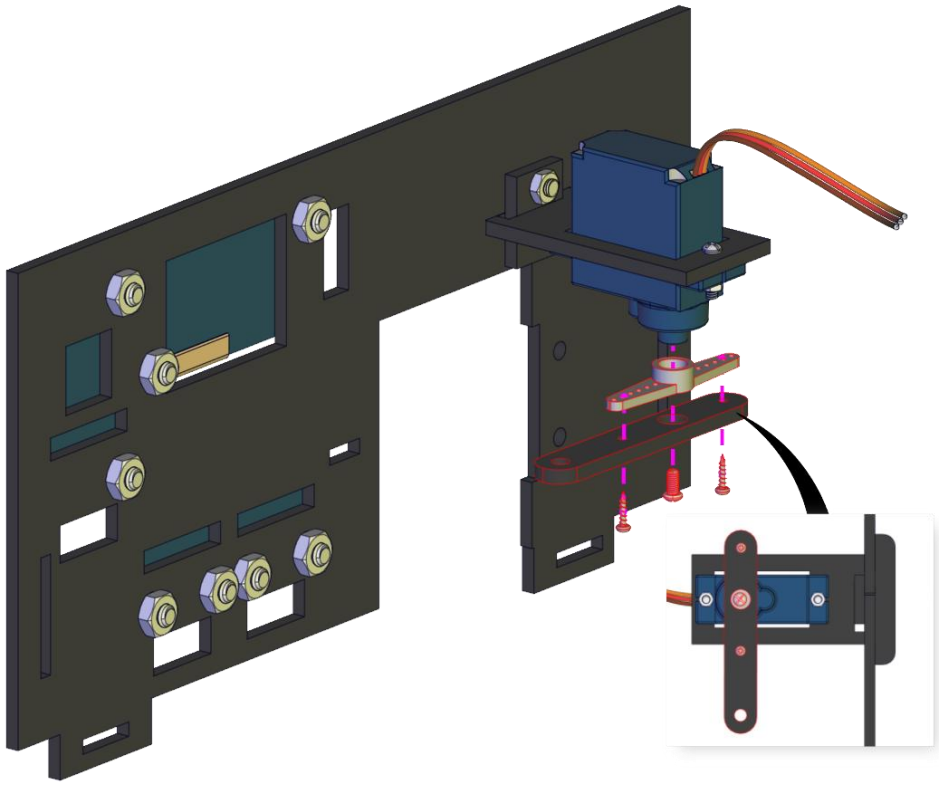
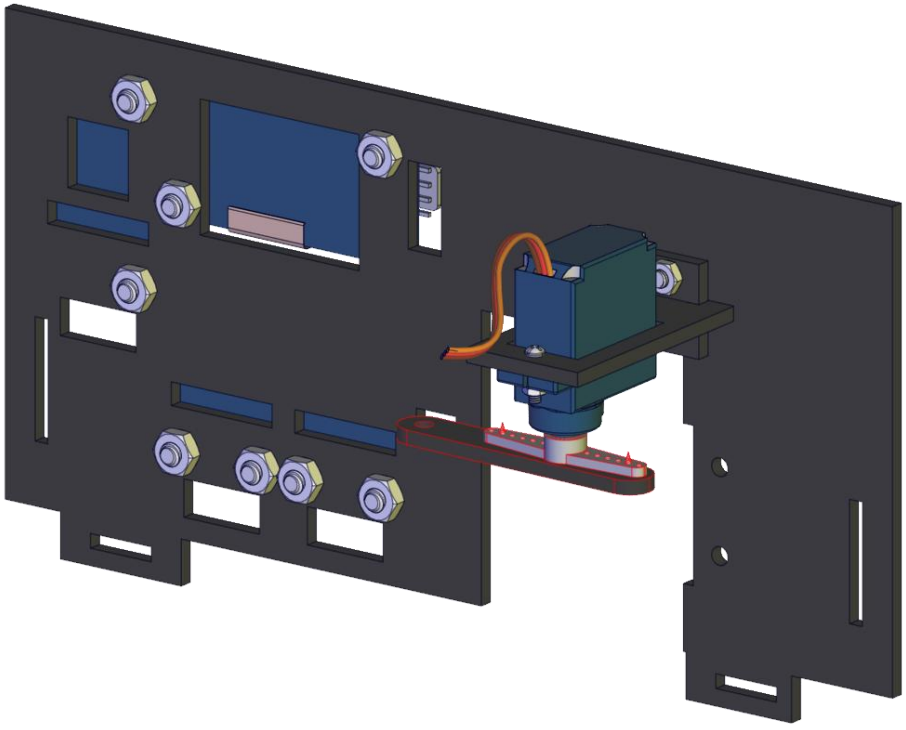
Step 3 complete	
Step 4	

complete	

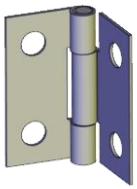
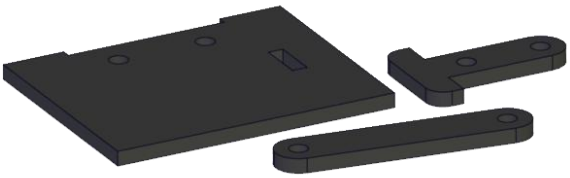
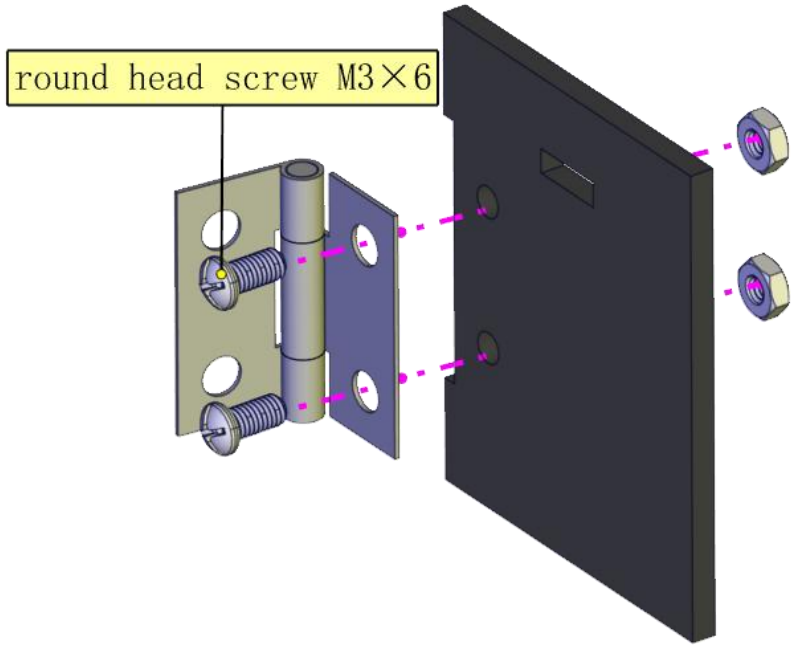
Installation 17

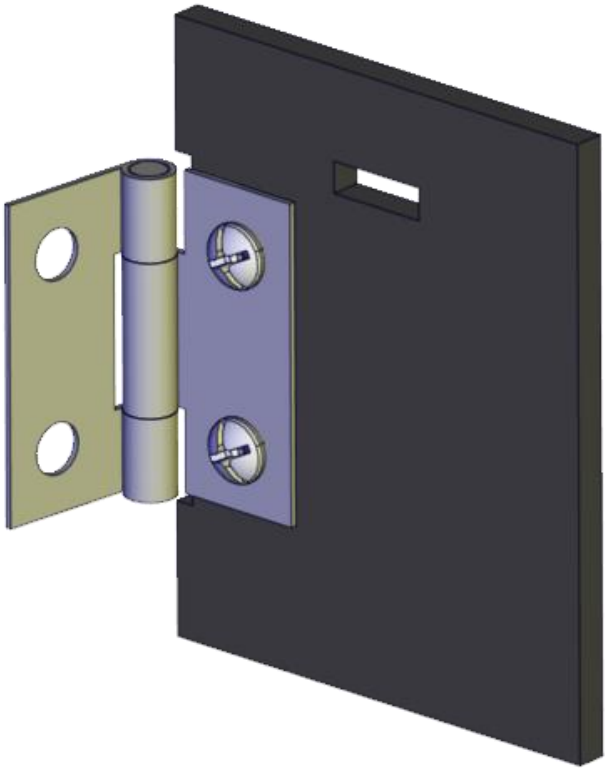
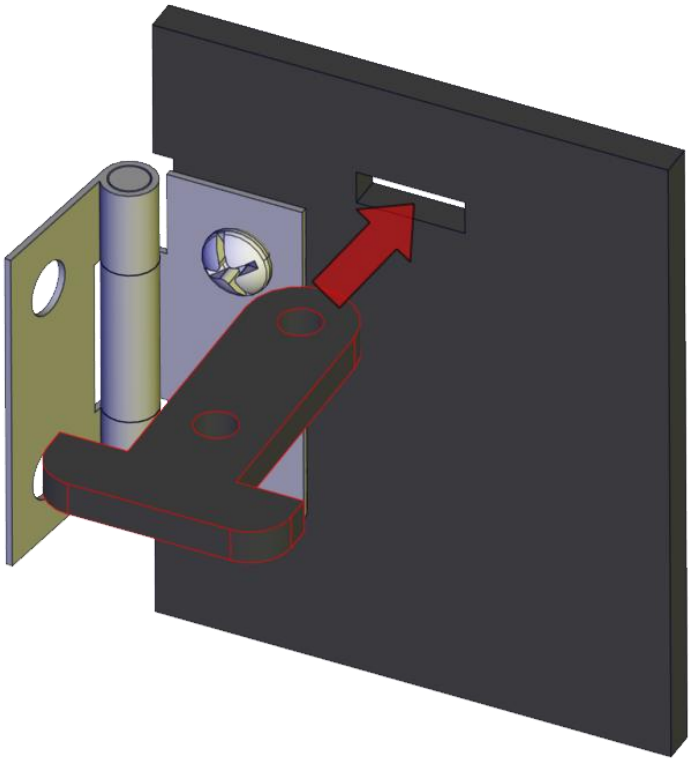
Parts required for installation	

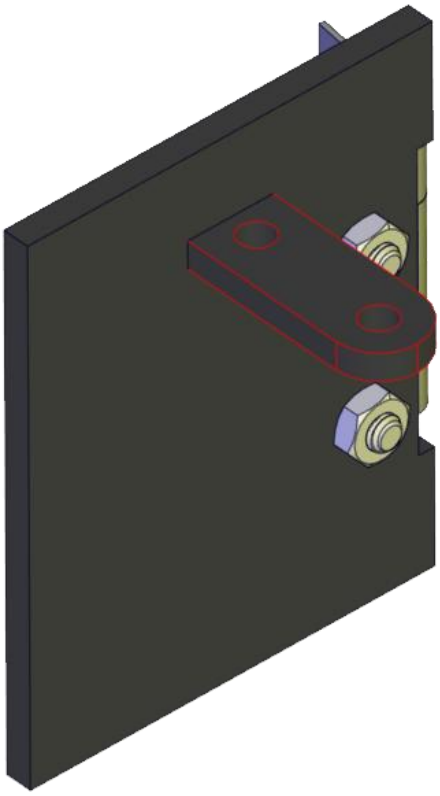
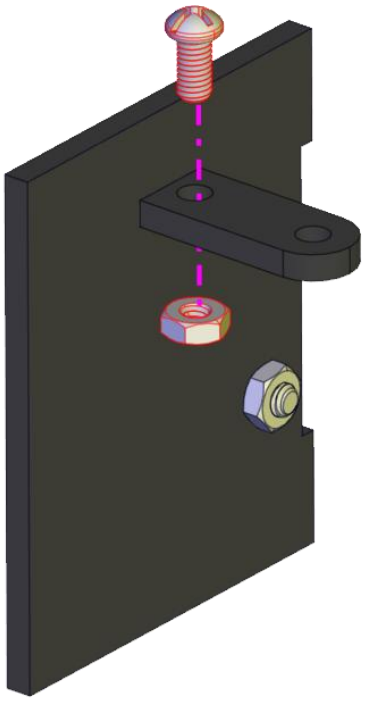
Write code before installation, and adjust the steering gear to 90 °	Connect the arduino UNO to your computer with a data cable, edit the following code in the arduino IDE, and click Upload code.
	 
	You can directly copy the following code:
	`#include <Servo.h>`
	`Servo myservo;  // create servo object to control a servo`
	
	`void setup() {`
	`  myservo.attach(11);  // attaches the servo on pin 11 to the servo object`
	`}`
	
	`void loop() {`
	`  myservo.write(90);  // tell servo to go to position in variable 'pos'`
	`}`

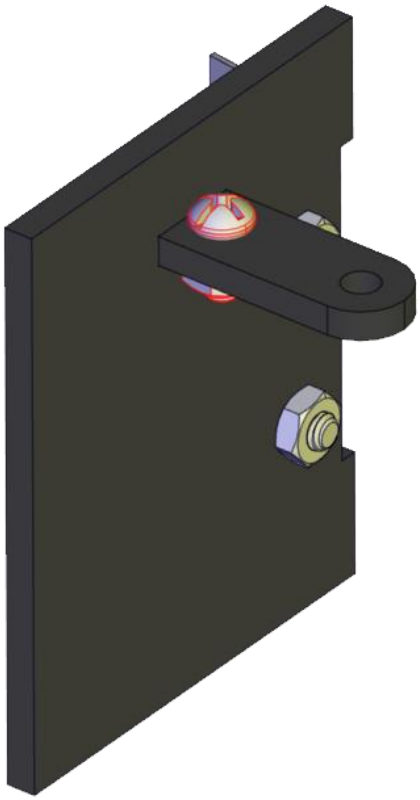
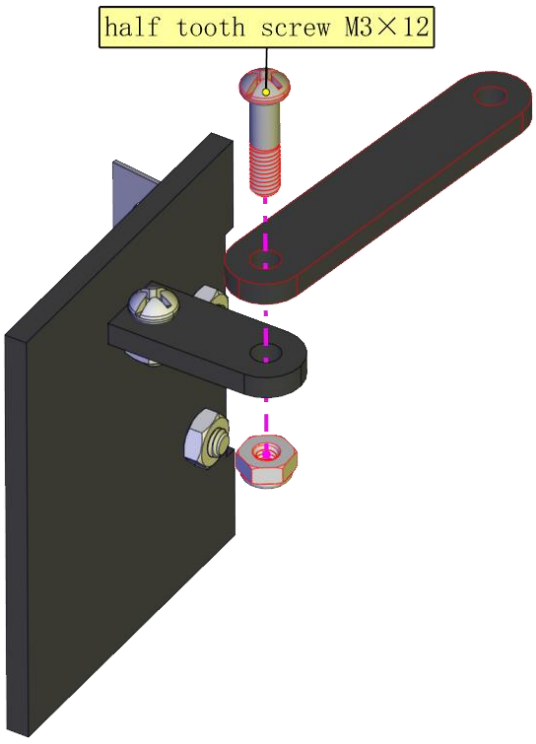
Install (The installation angle shall be consistent with the figure)	
complete	

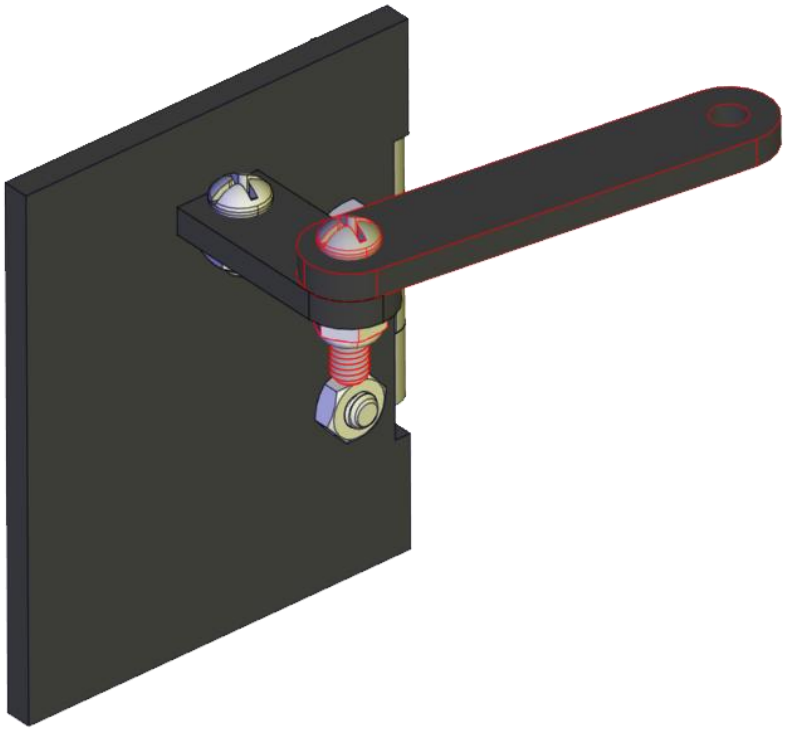
Installation 18

Parts required for installation	 hinge ×1  Acrylic plate ×3  round head screw M3×6 ×3  nut M3 ×3  half tooth screw M3×12 ×1  Self-locking nut M3 ×1 Note: The door is not the same size as the window. The door is larger.
Step 1	 round head screw M3×6

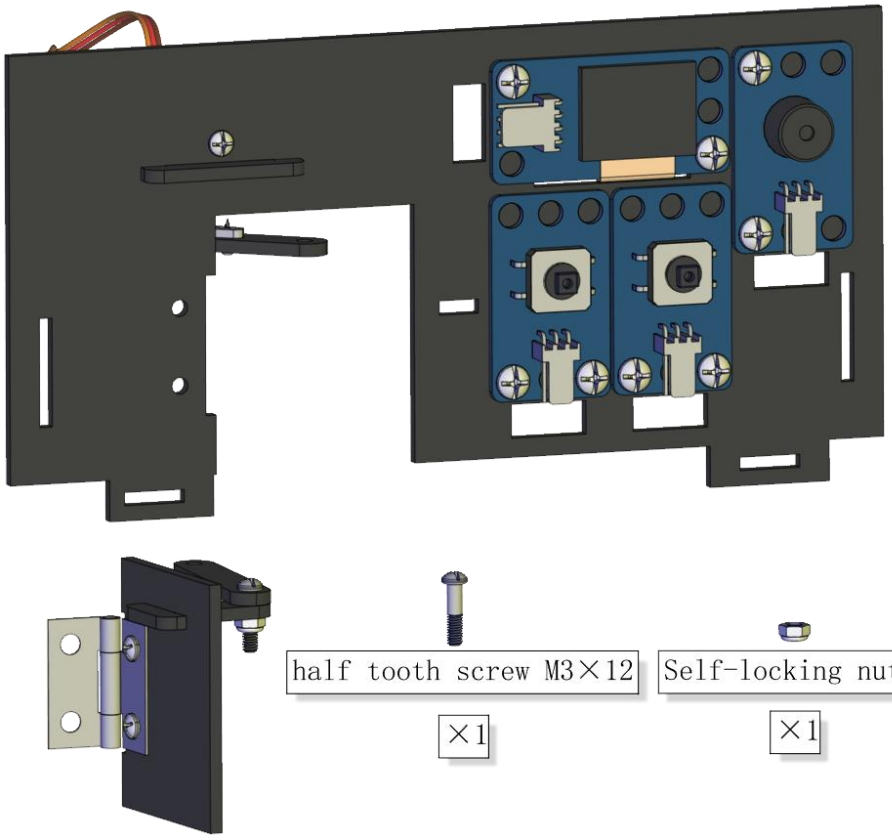
Step 1 complete	
Step 2	

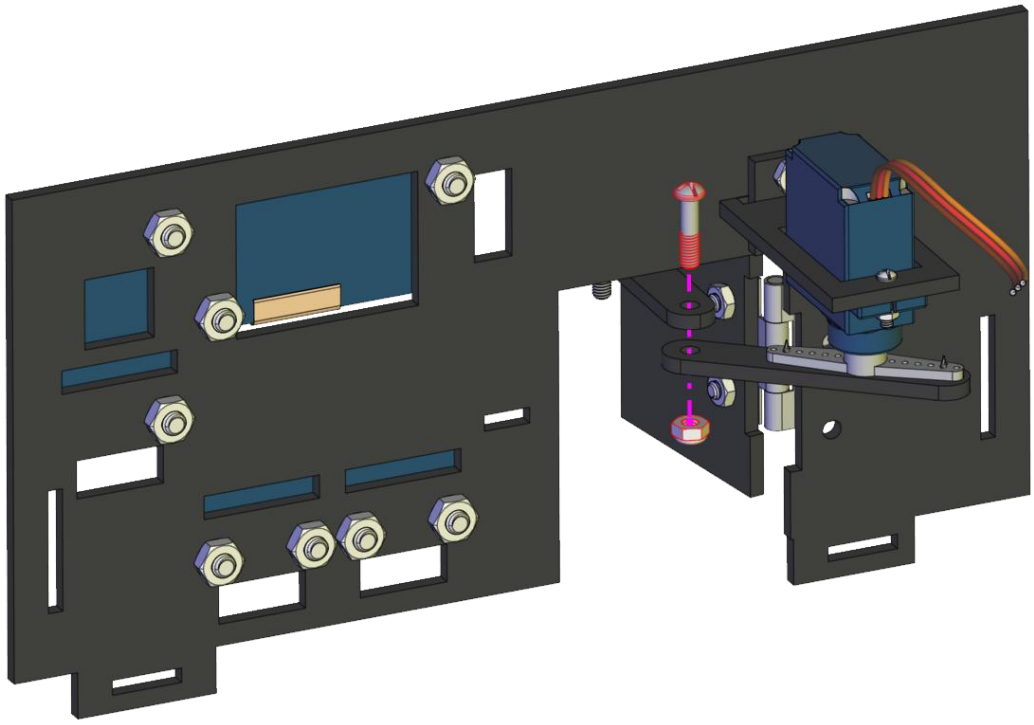
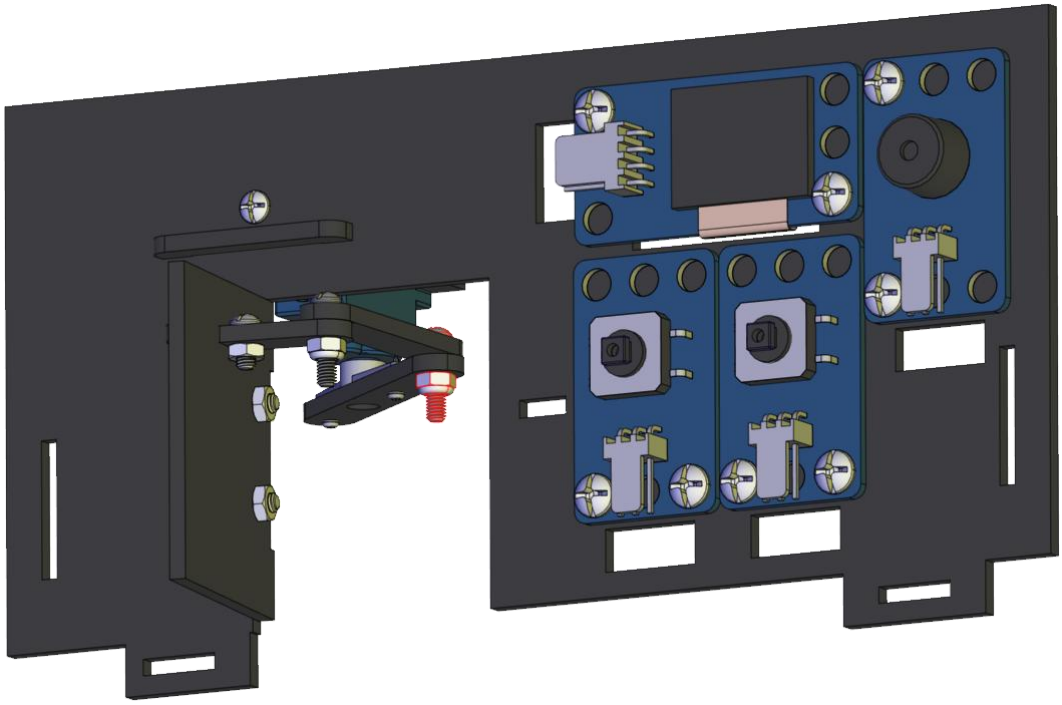
Step 2 complete	
Step 3	

Step 3 complete	
Step 4 (The self-locking nut cannot be locked)	

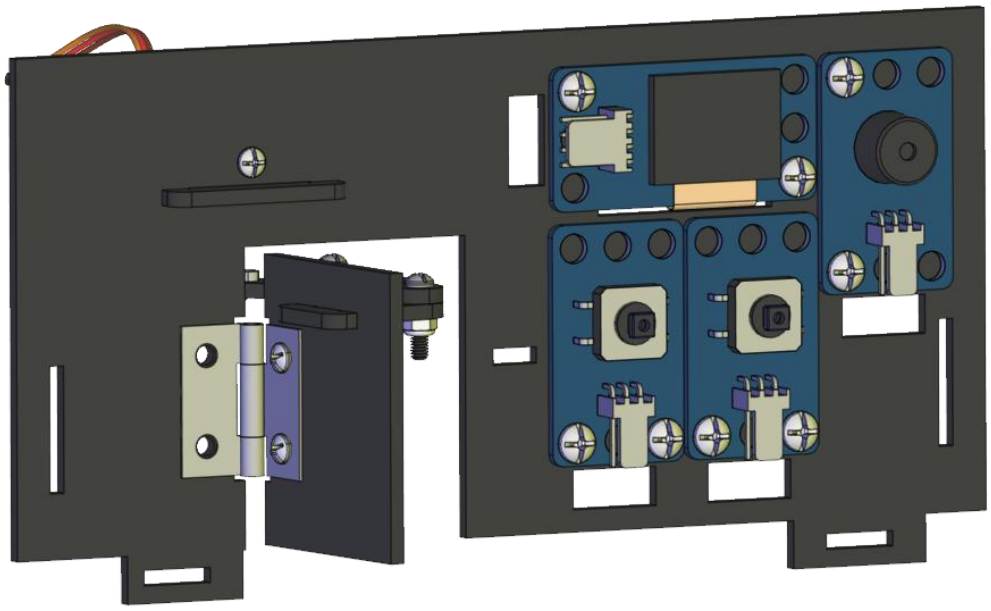
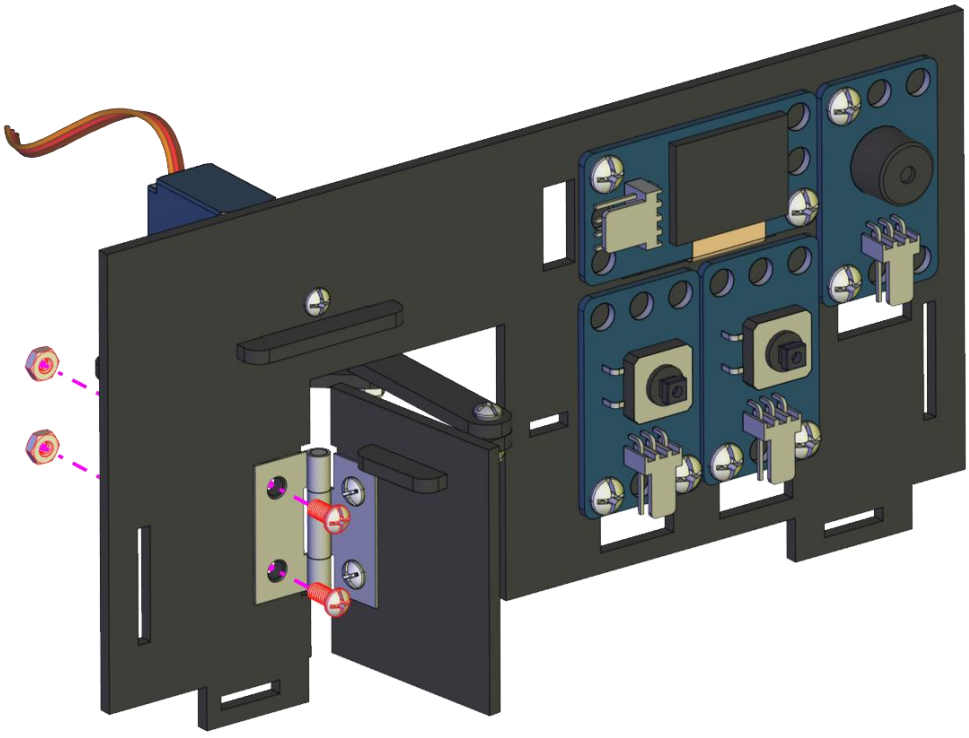
complete	

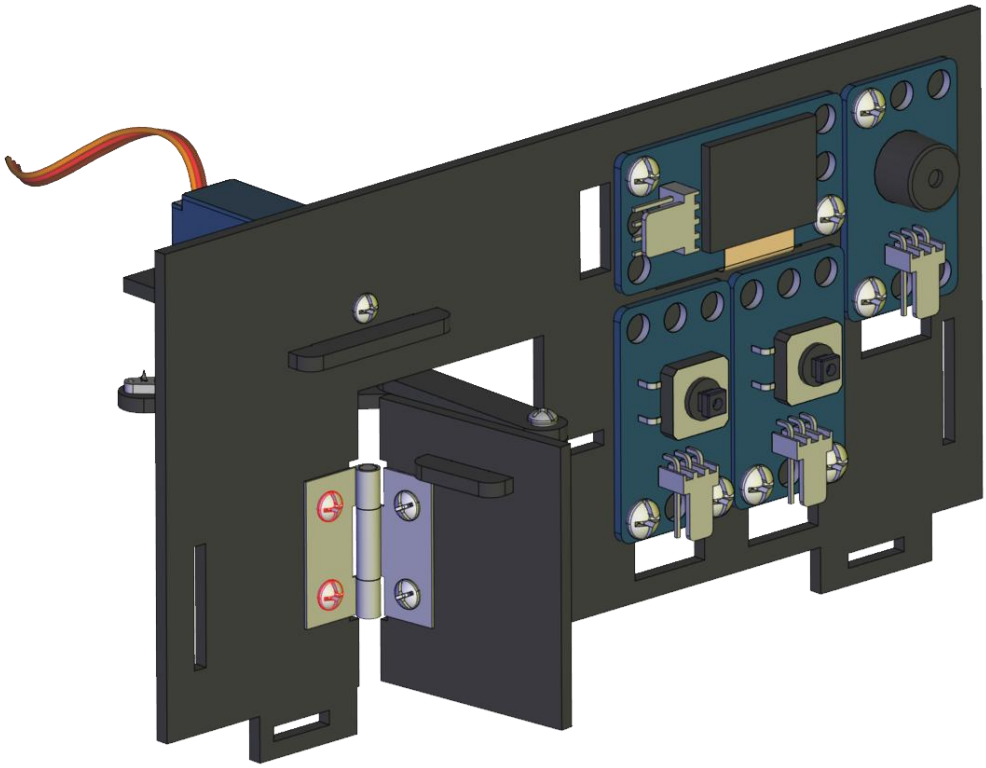
Installation 19

Parts required for installation	

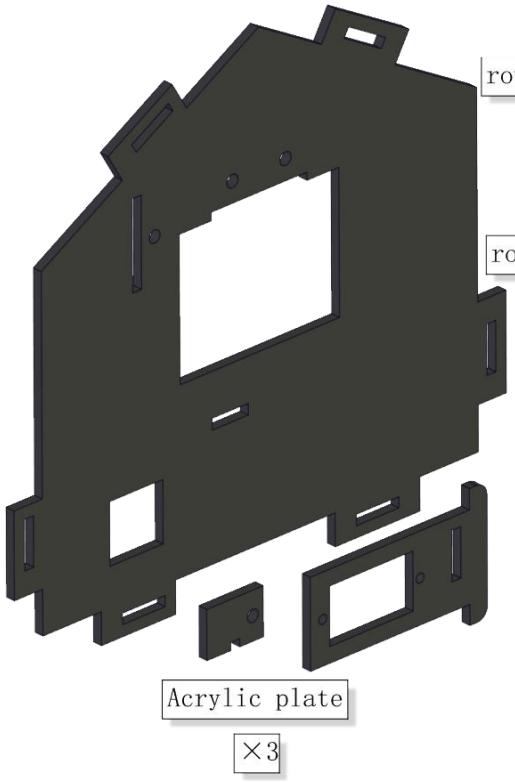
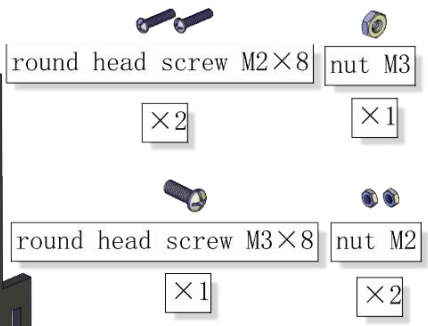
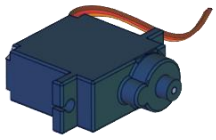
Install (The self-locking nut cannot be locked)	
complete	

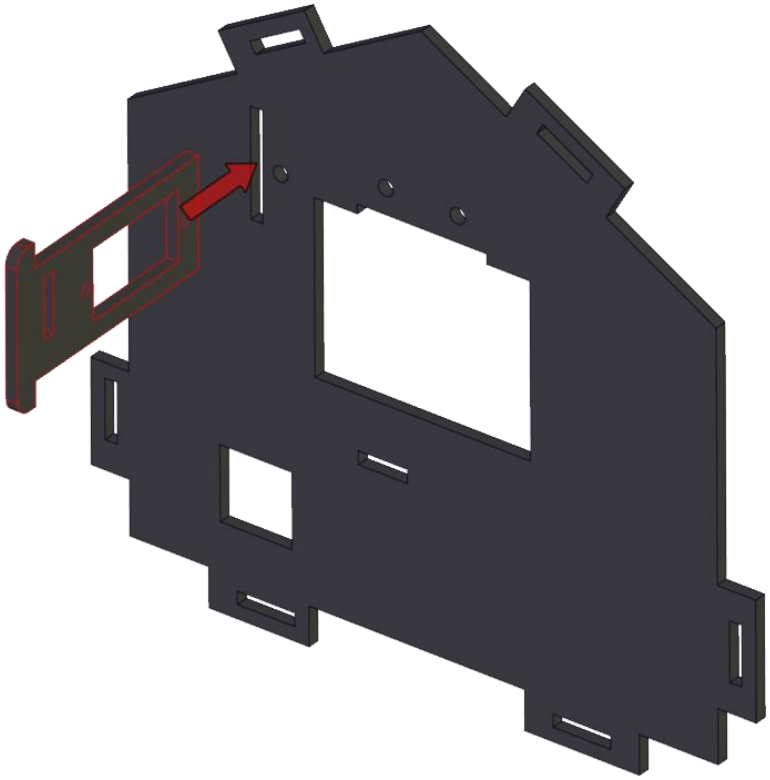
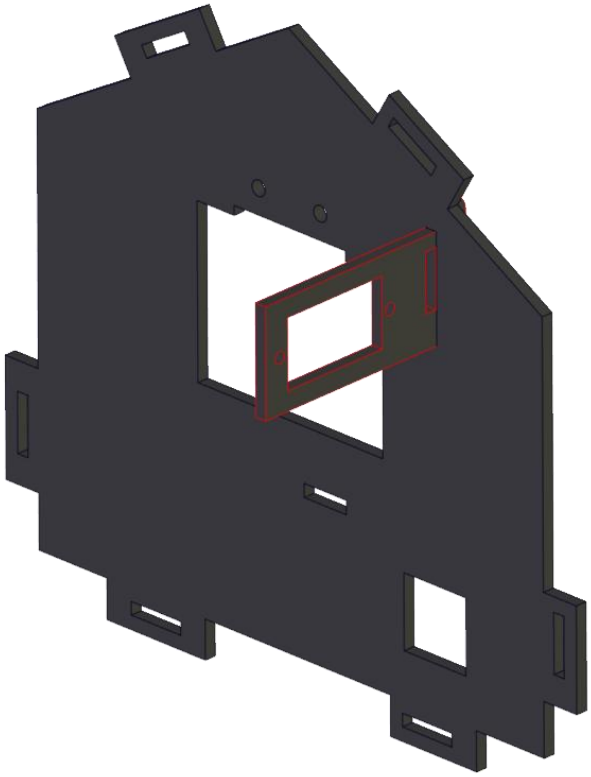
Installation 20

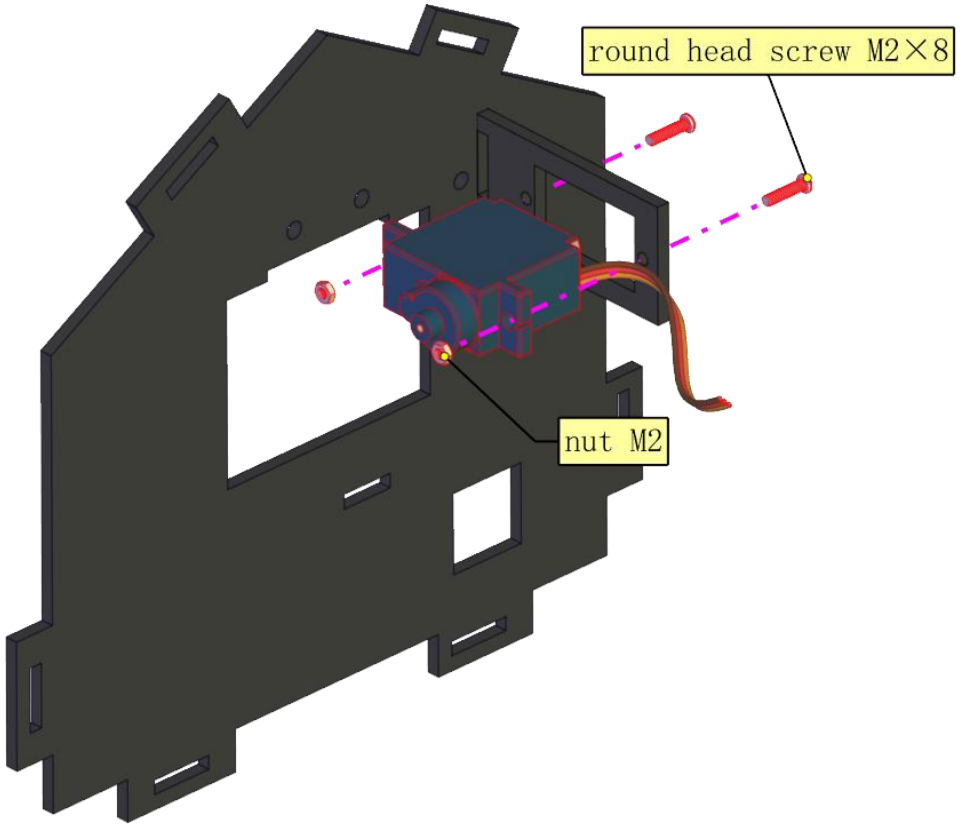
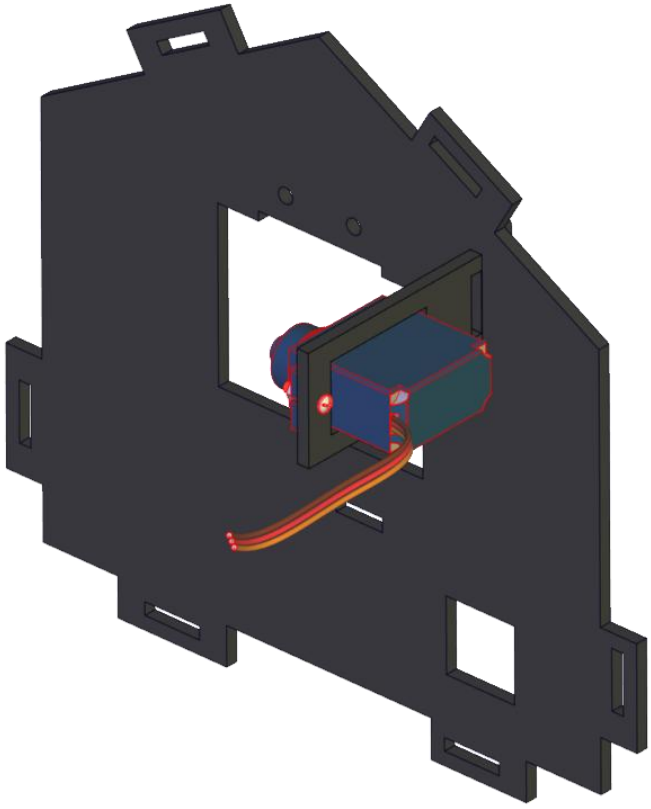
Parts required for installation	  round head screw M3×6 ×2  nut M3 ×2
install	

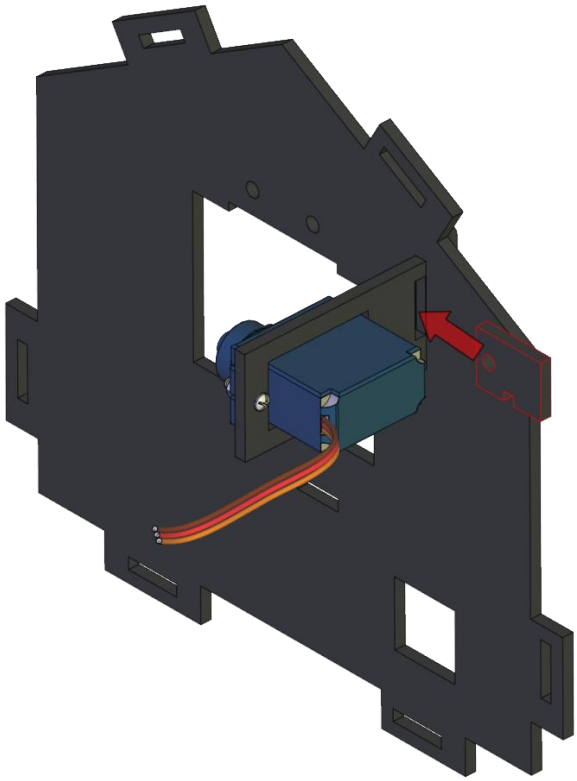
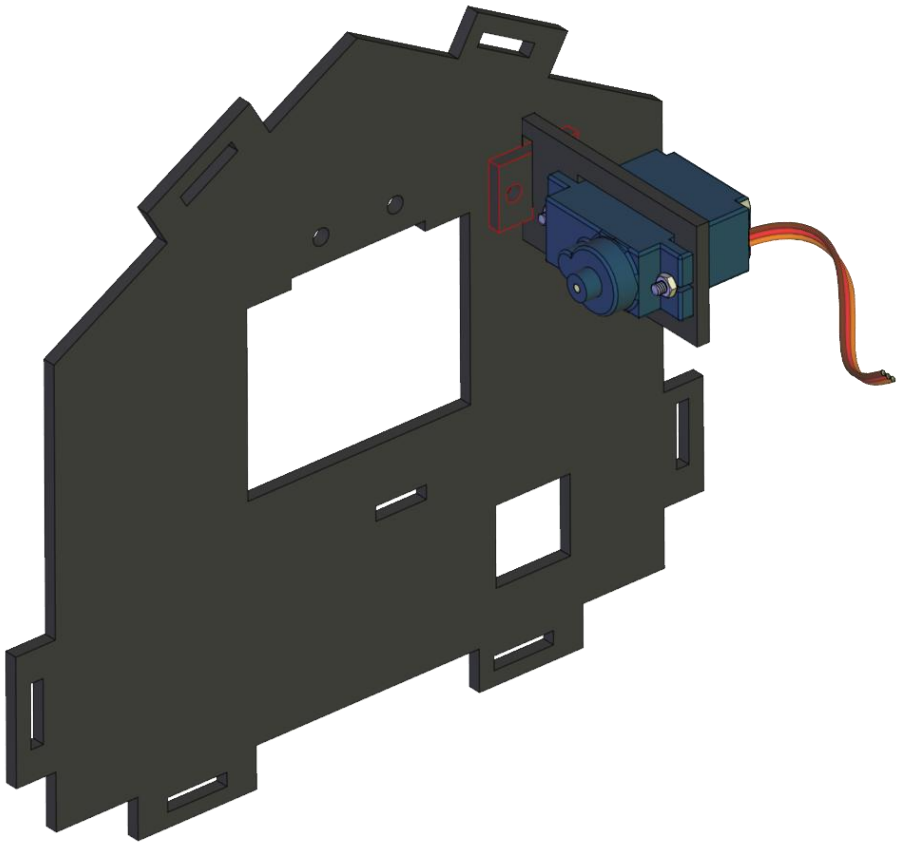
complete	

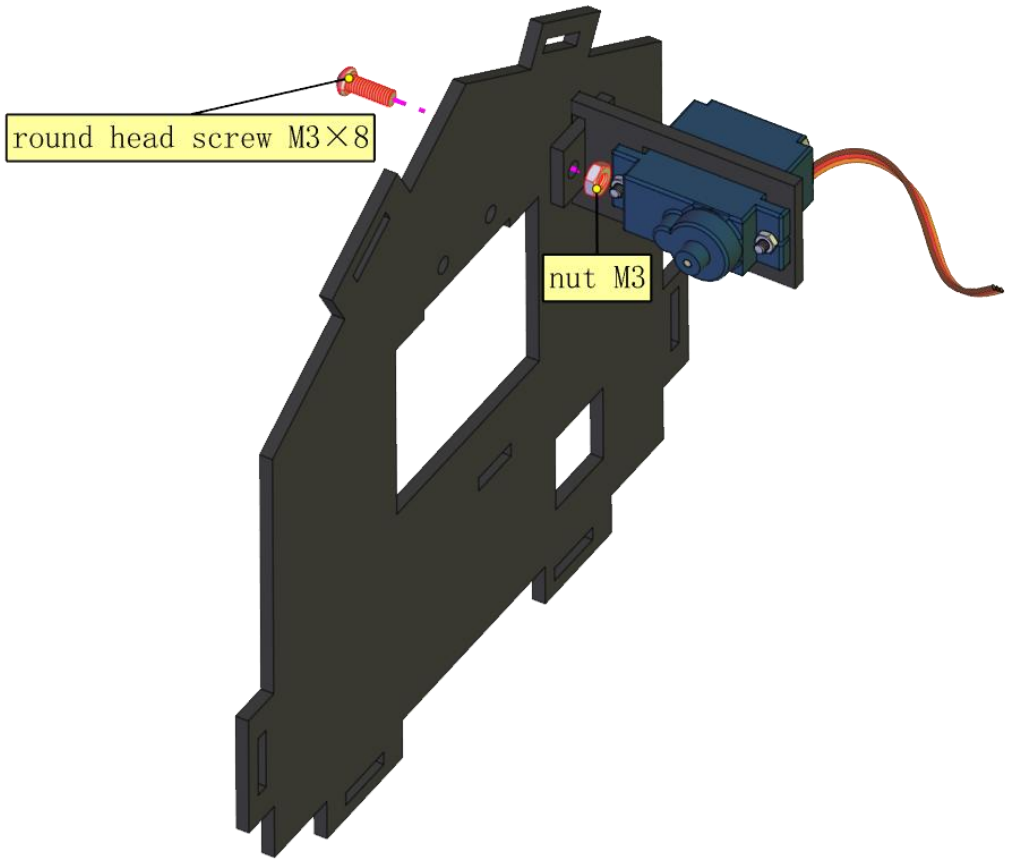
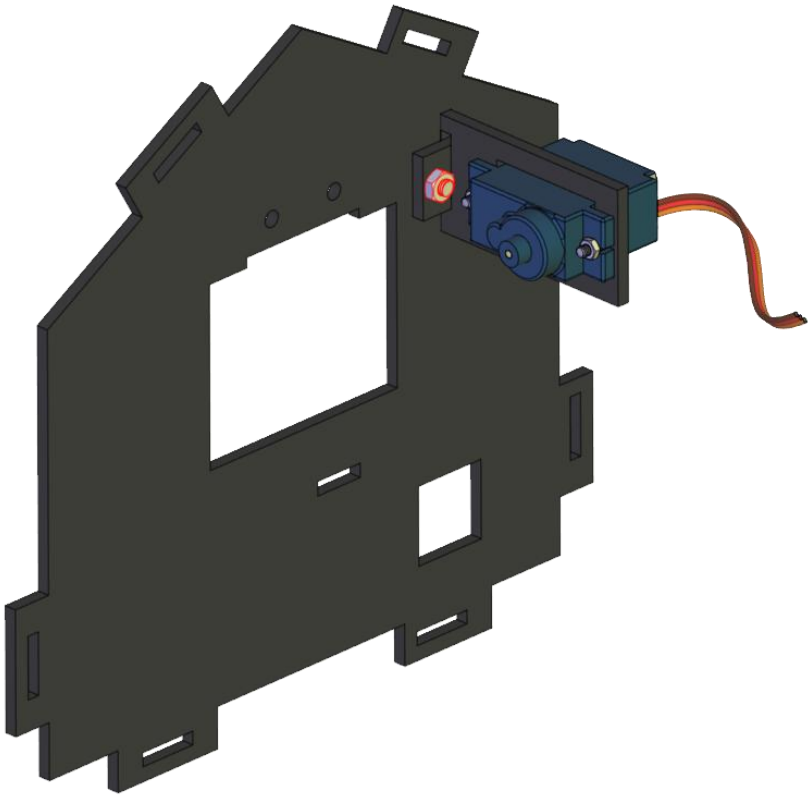
Installation 21

Parts required for installation	 Acrylic plate ×3  round head screw M2×8 ×2 nut M3 ×1 round head screw M3×8 ×1 nut M2 ×2  steering engine ×1

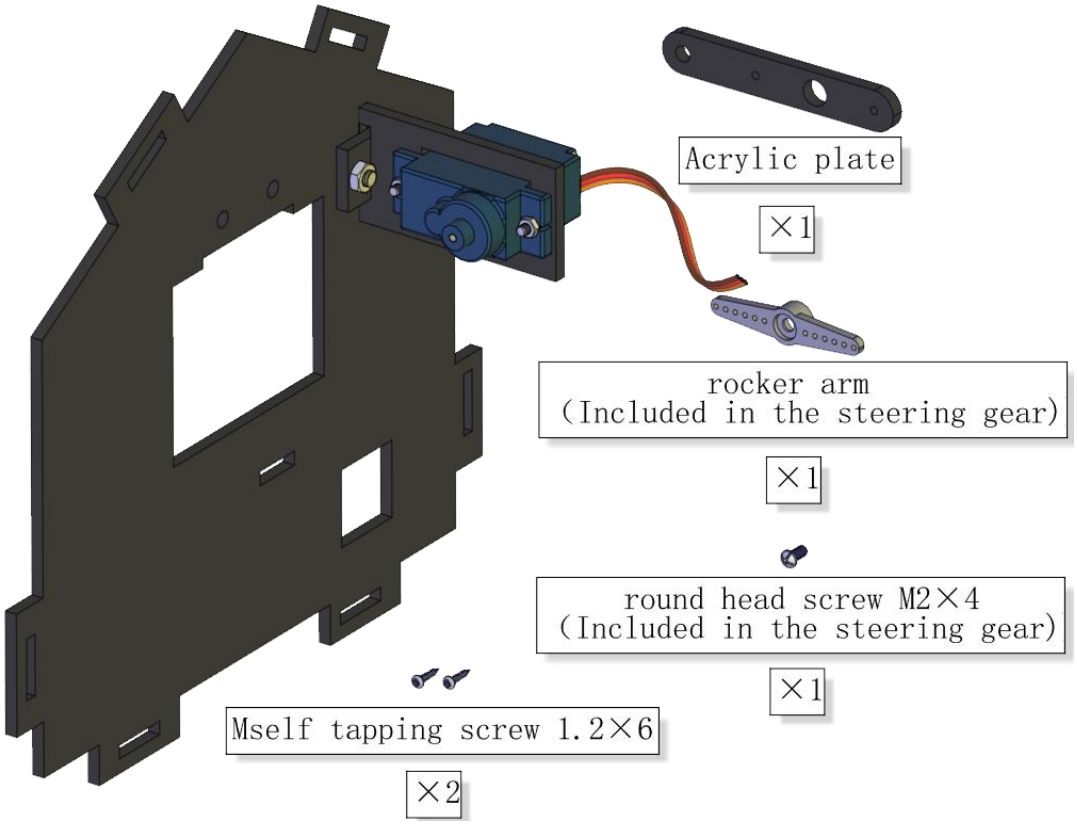
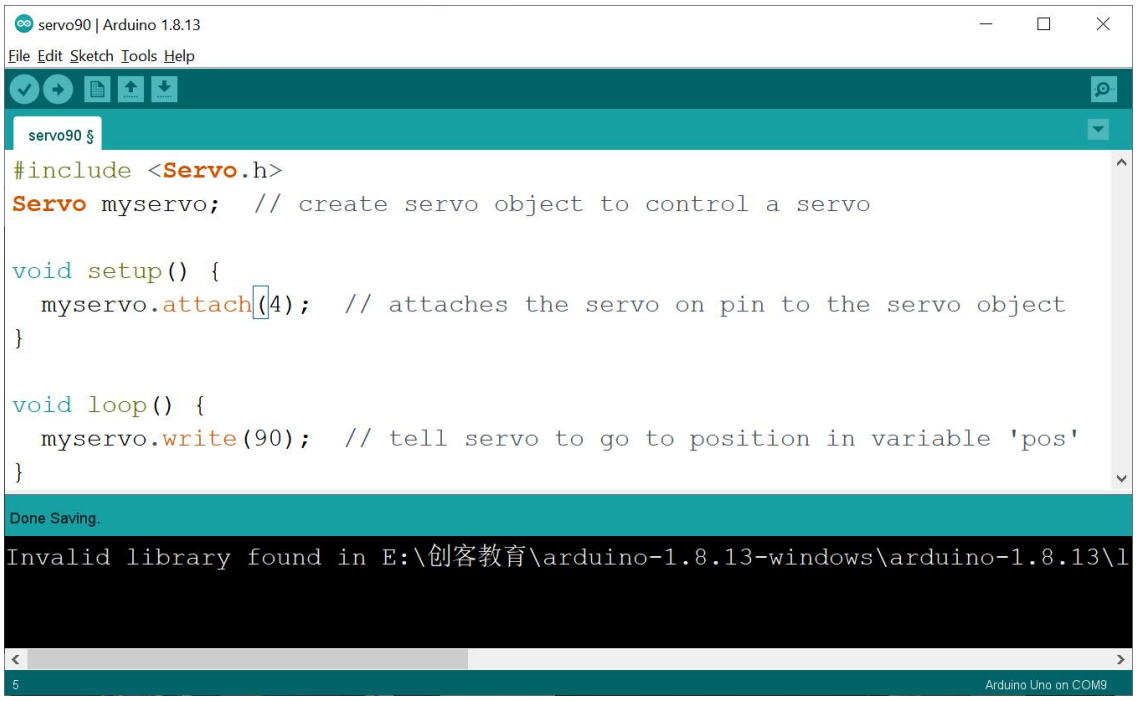
Step 1	
Step 1 complete	

Step 2	
Step 2 complete	

Step 3	
Step 3 complete	

Step 4	
complete	

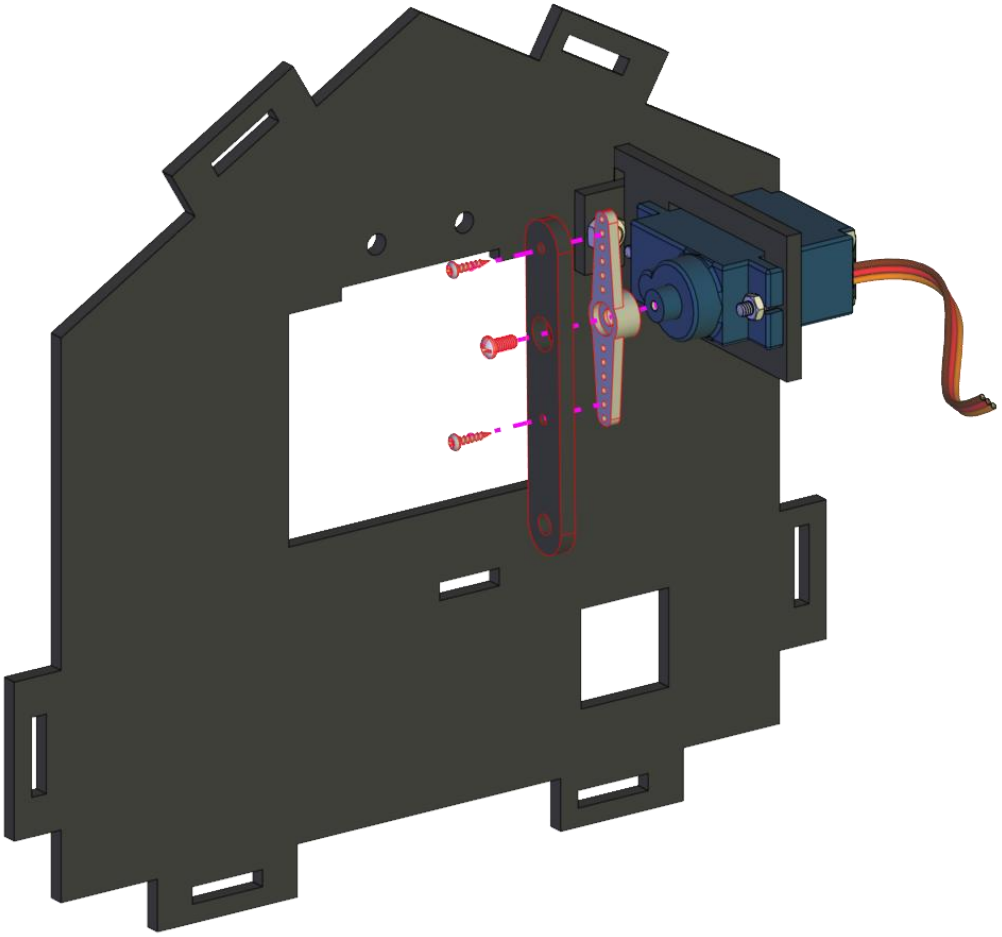
Installation 22

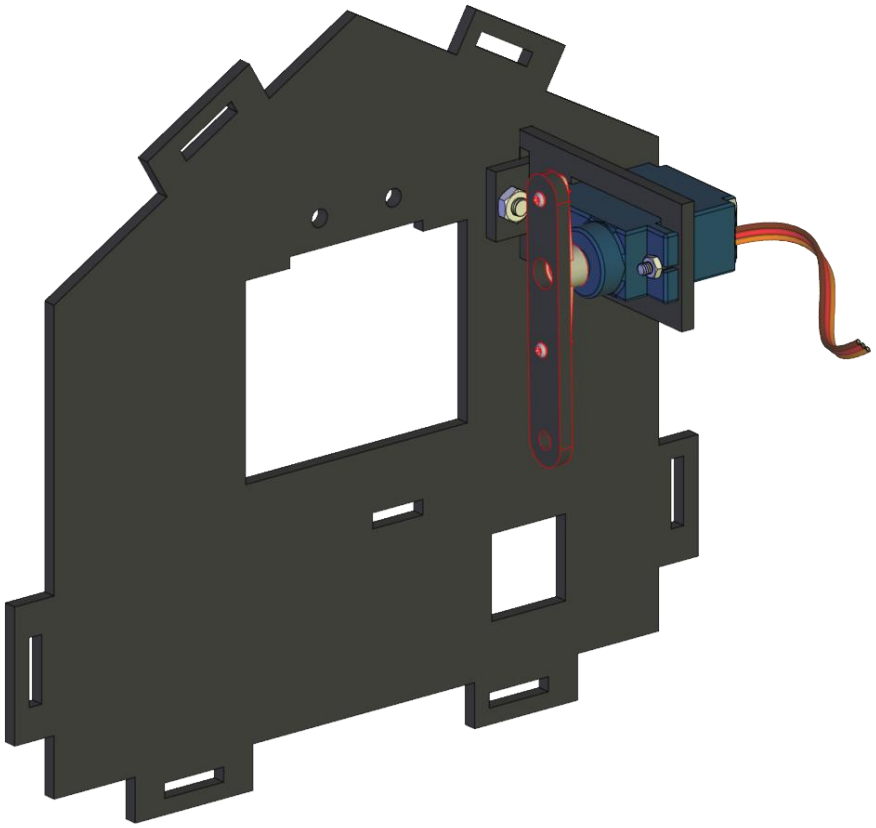
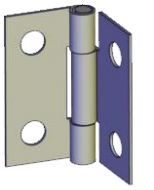
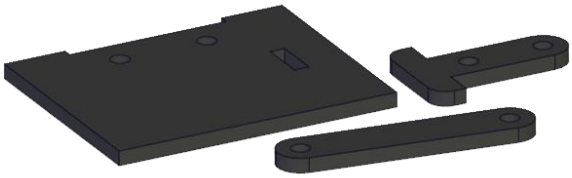
Parts required for installation	
Write code before installation, and adjust the steering gear to 90 °	Connect the arduino UNO to your computer with a data cable, edit the following code in the arduino IDE, and click Upload code.  You can directly copy the following code:

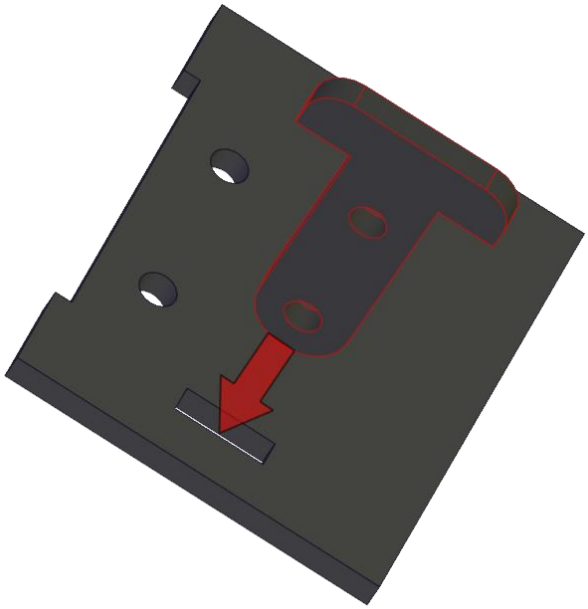
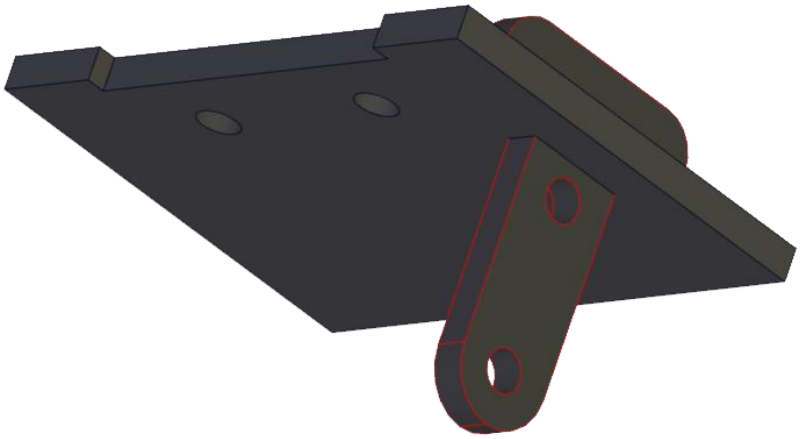
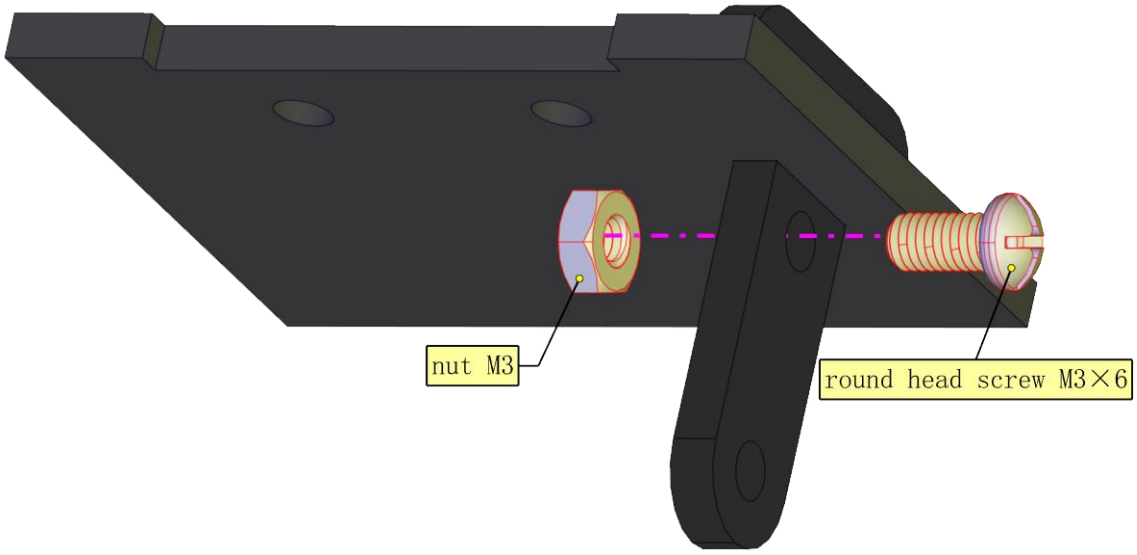
```
#include <Servo.h>
Servo myservo;  // create servo object to control a servo

void setup() {
  myservo.attach(4);  // attaches the servo on pin 4 to the servo object
}

void loop() {
  myservo.write(90);  // tell servo to go to position in variable 'pos'
}
```

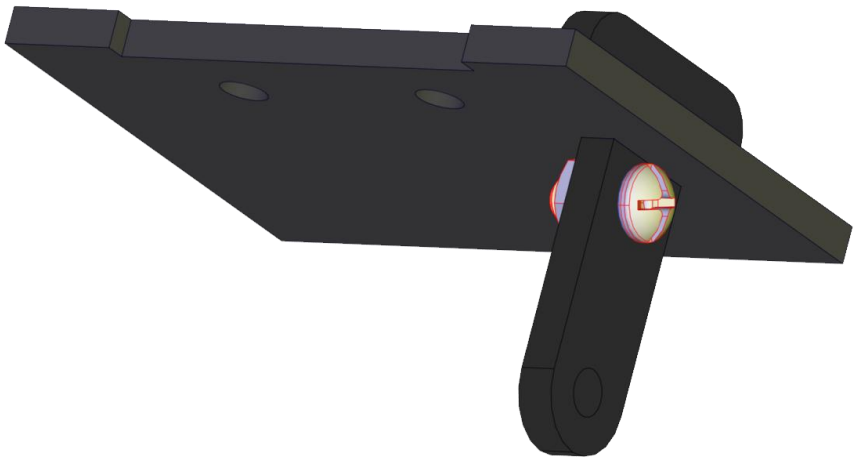
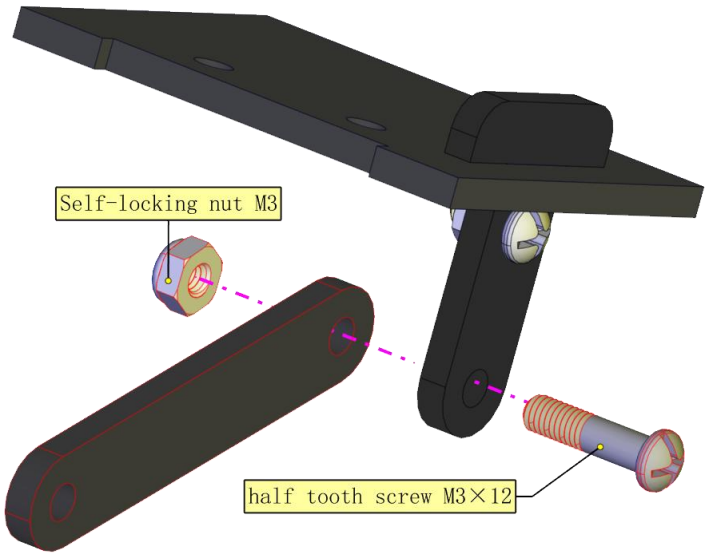
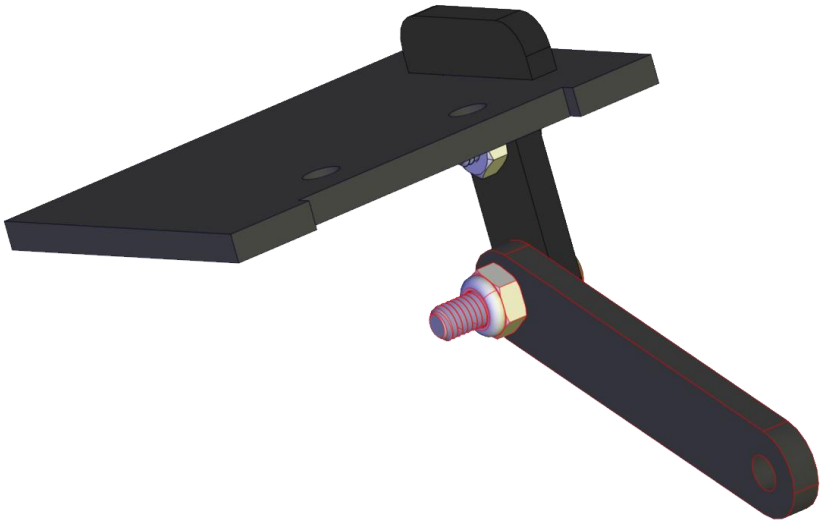
Install

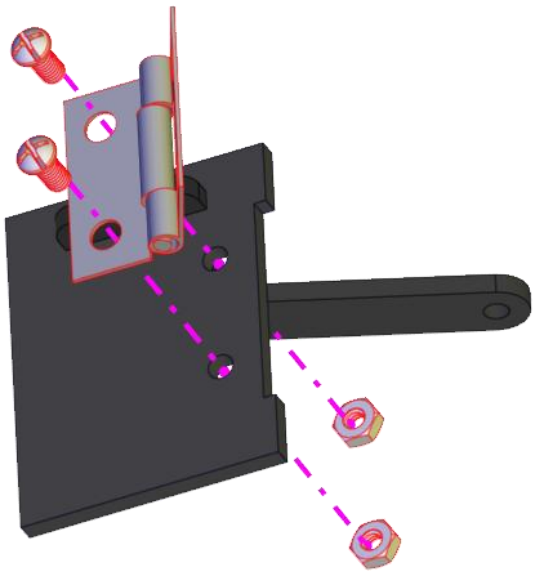
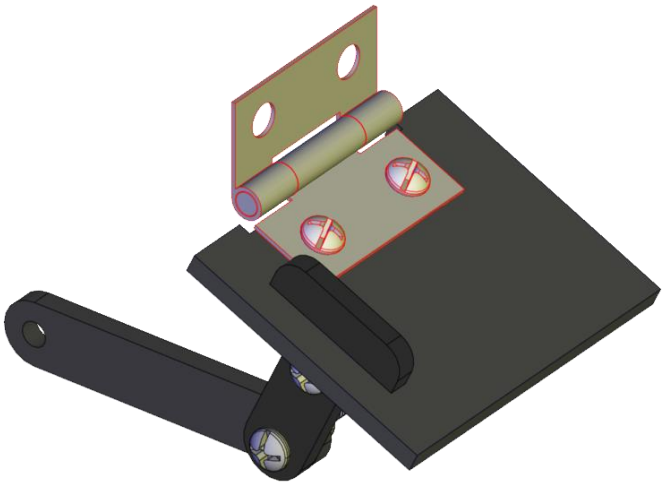
(The installation angle shall be consistent with the figure)



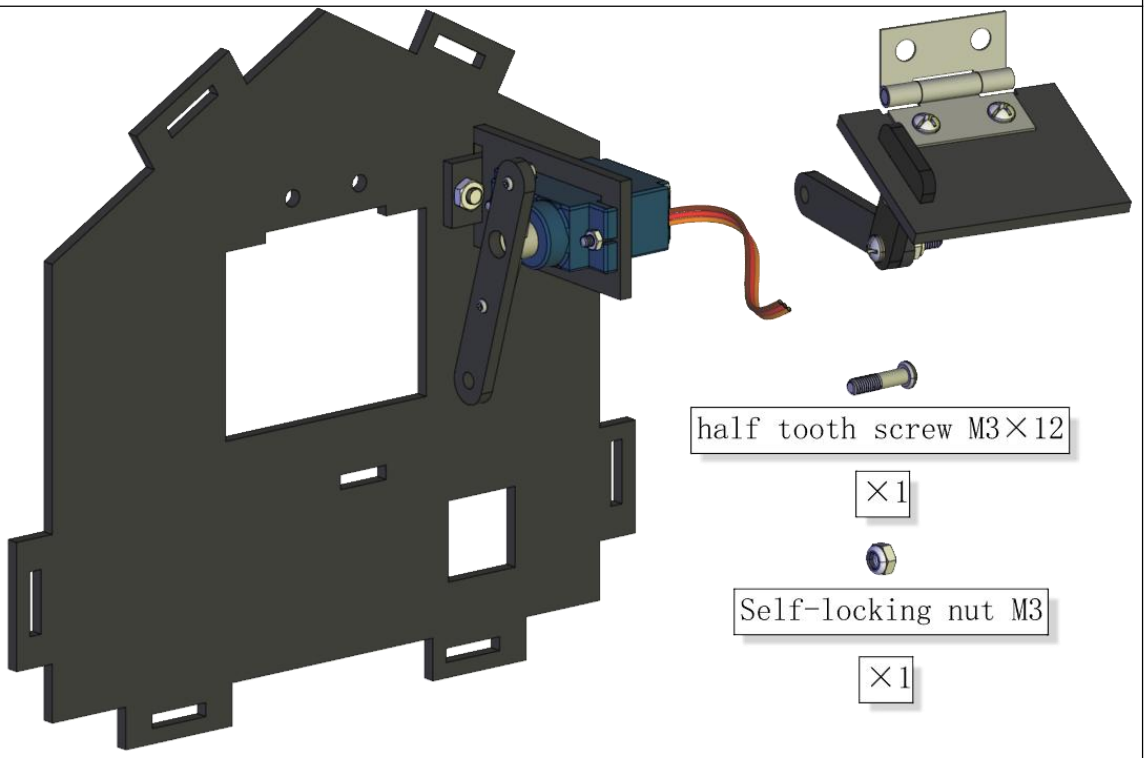
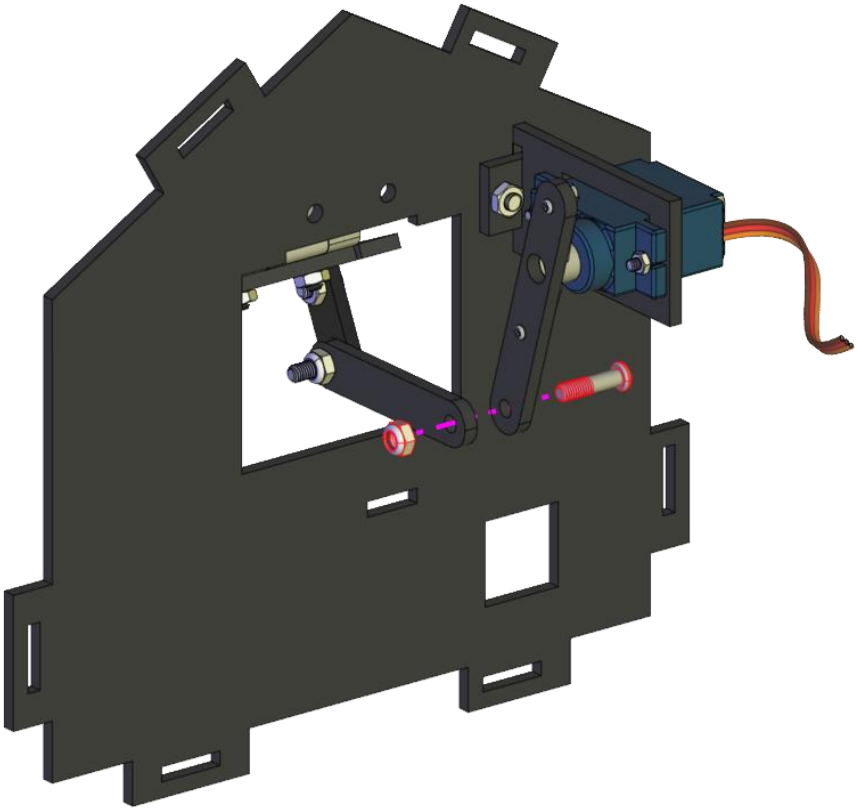
complete	
Installation 23	
Parts required for installation	 hinge ×1  Acrylic plate ×3  round head screw M3×6 ×3  nut M3 ×3  half tooth screw M3×12 ×1  Self-locking nut M3 ×1

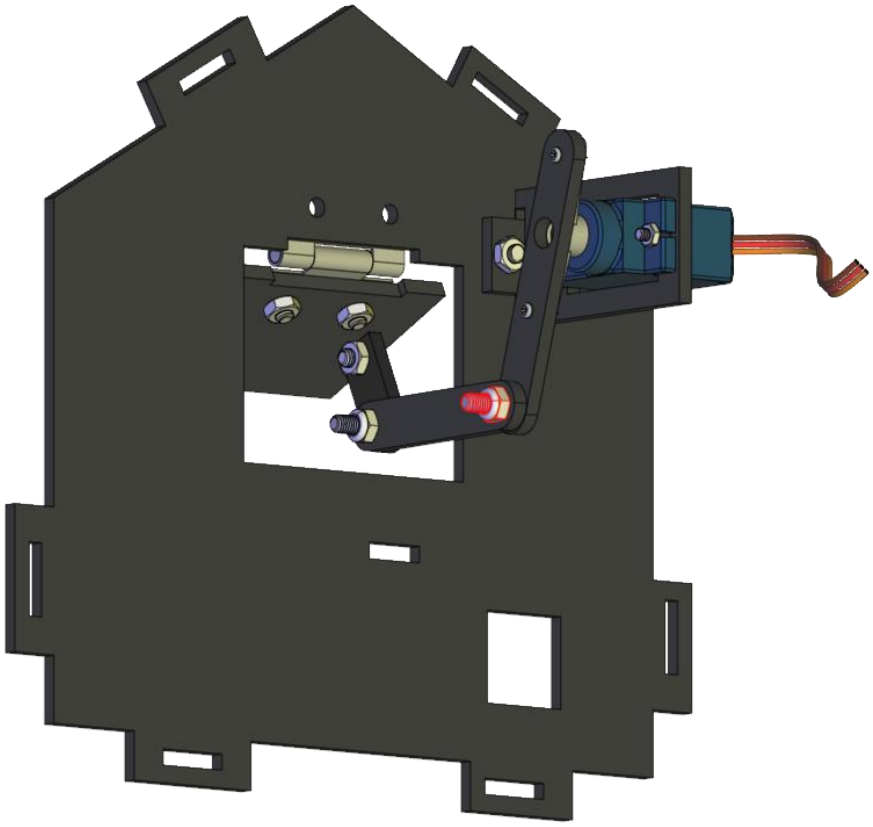
Step 1	
Step 1 complete	
Step 2	

Step 2 complete	
Step 3 (The self-locking nut cannot be locked)	 You need to use a wrench to jam the self-locking nut. We have provided two spanners cut from acrylic.
Step 3 complete	

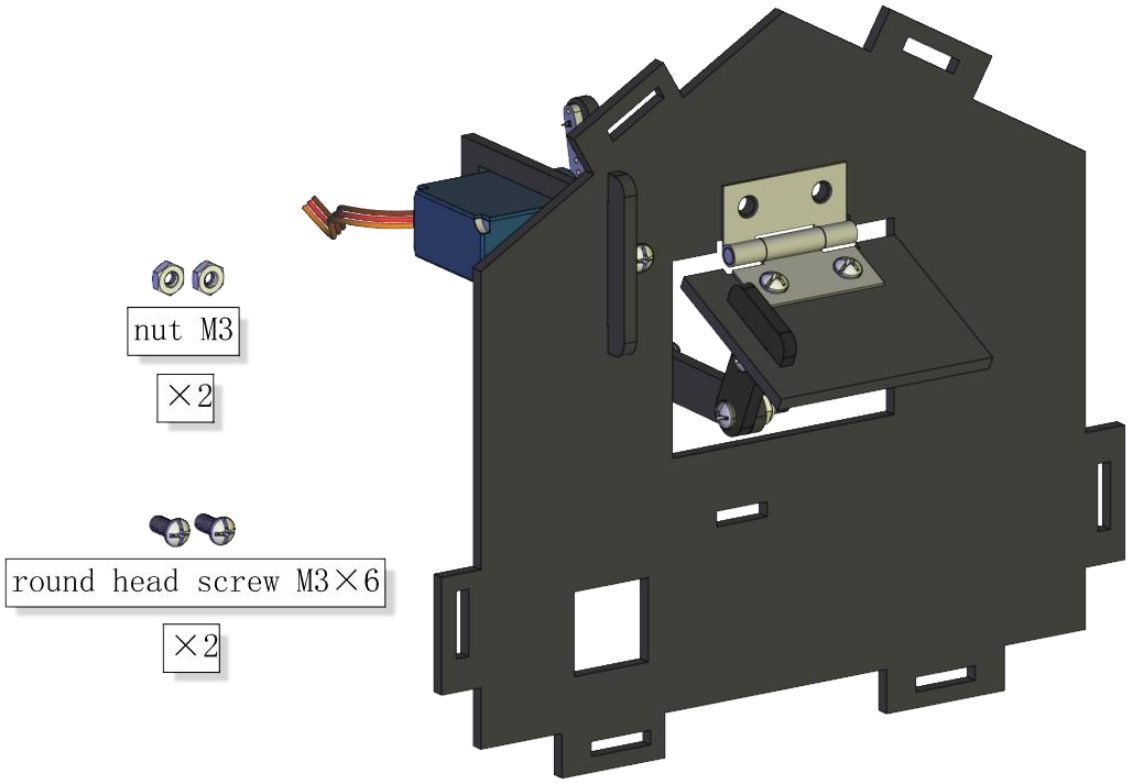
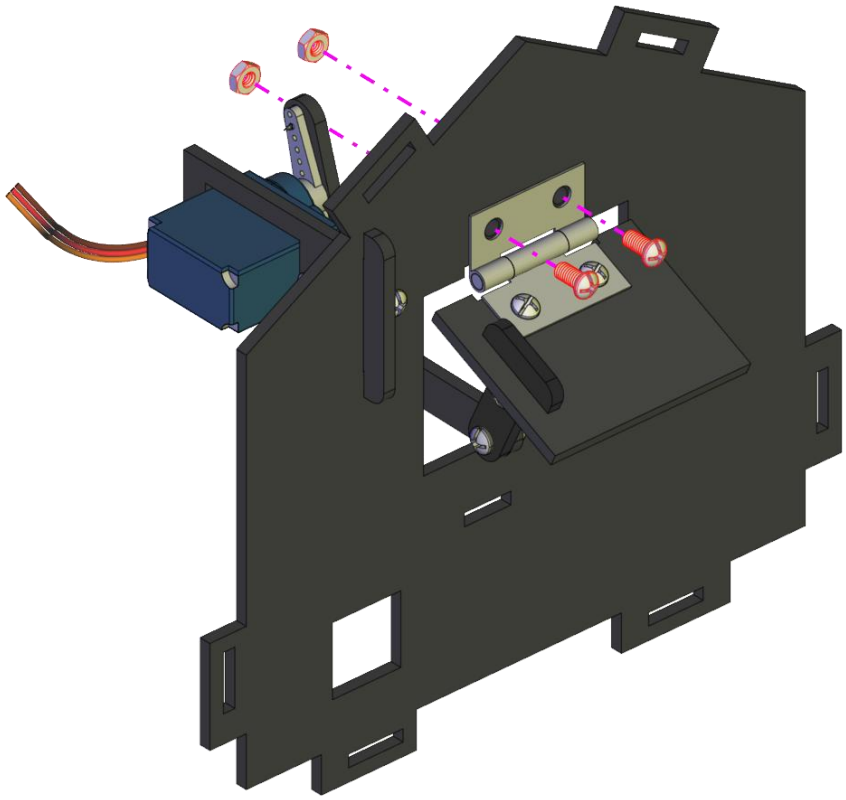
Step 4	
complete	

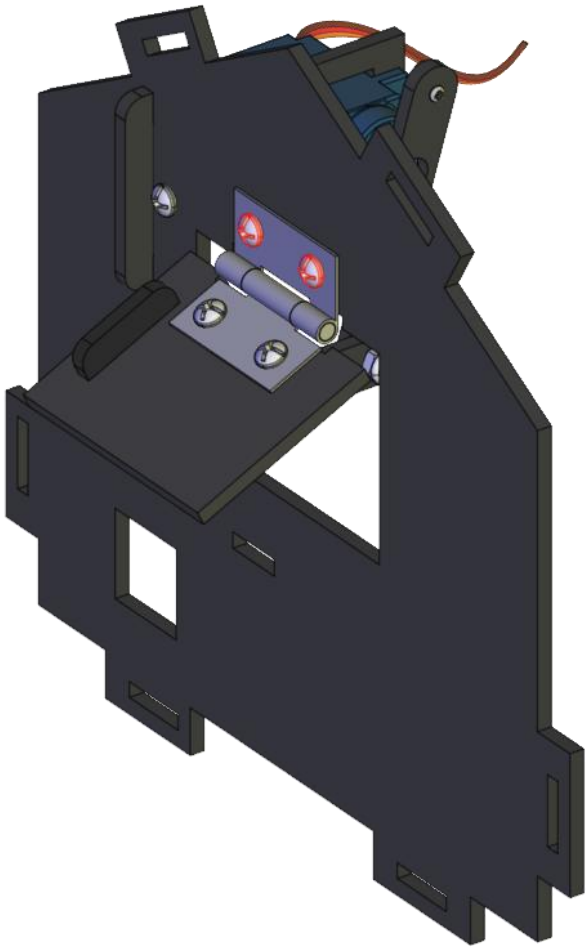
Installation 24

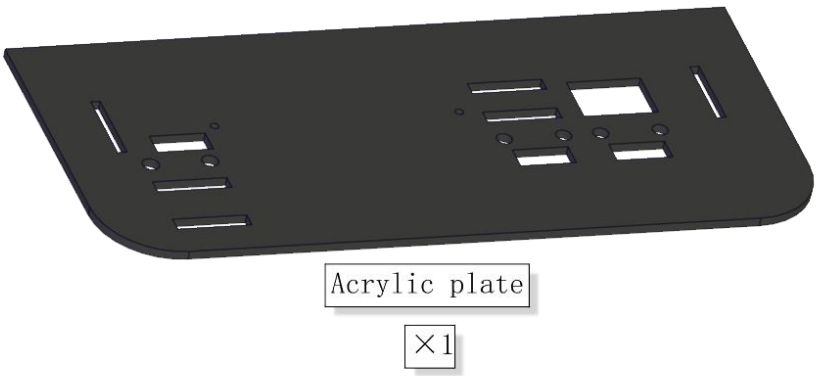
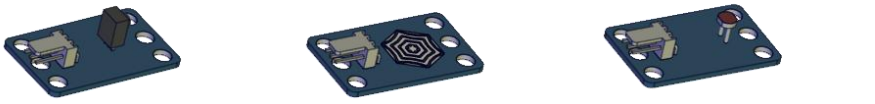
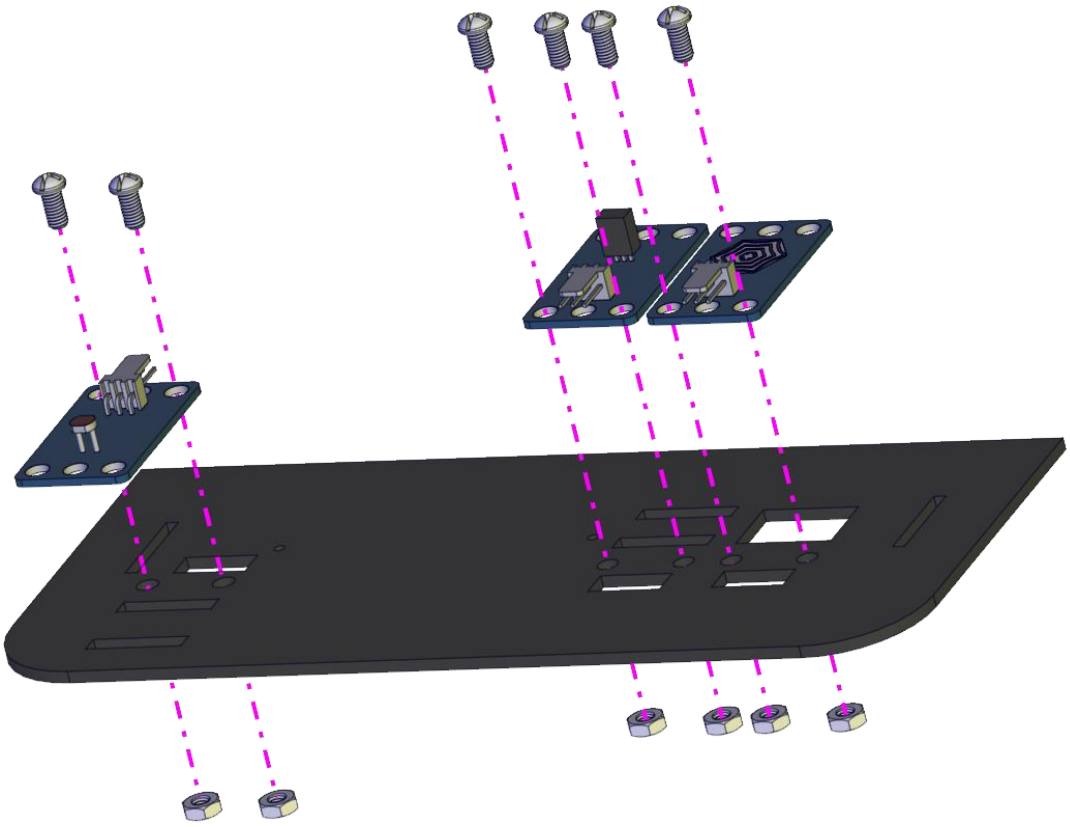
Parts required for installation	
install (The self-locking nut cannot be locked)	

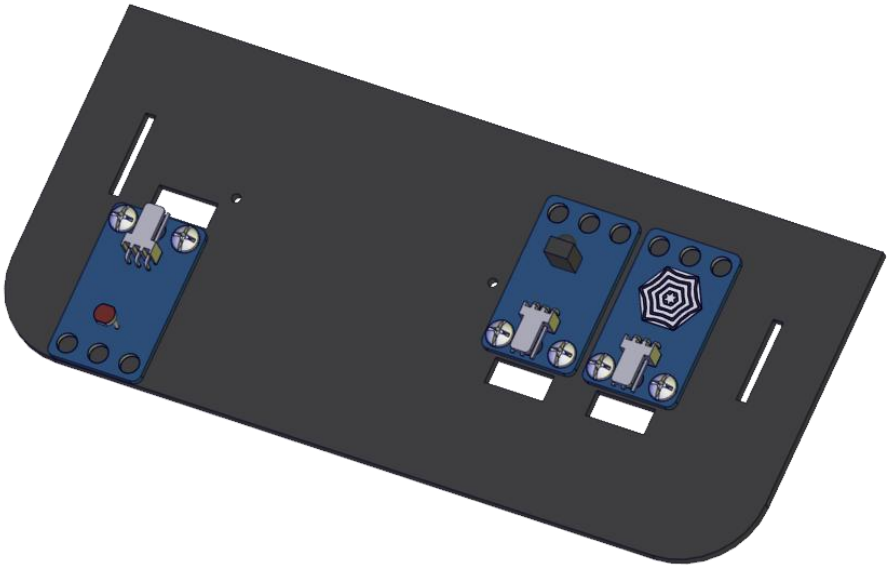
complete	

Installation 25

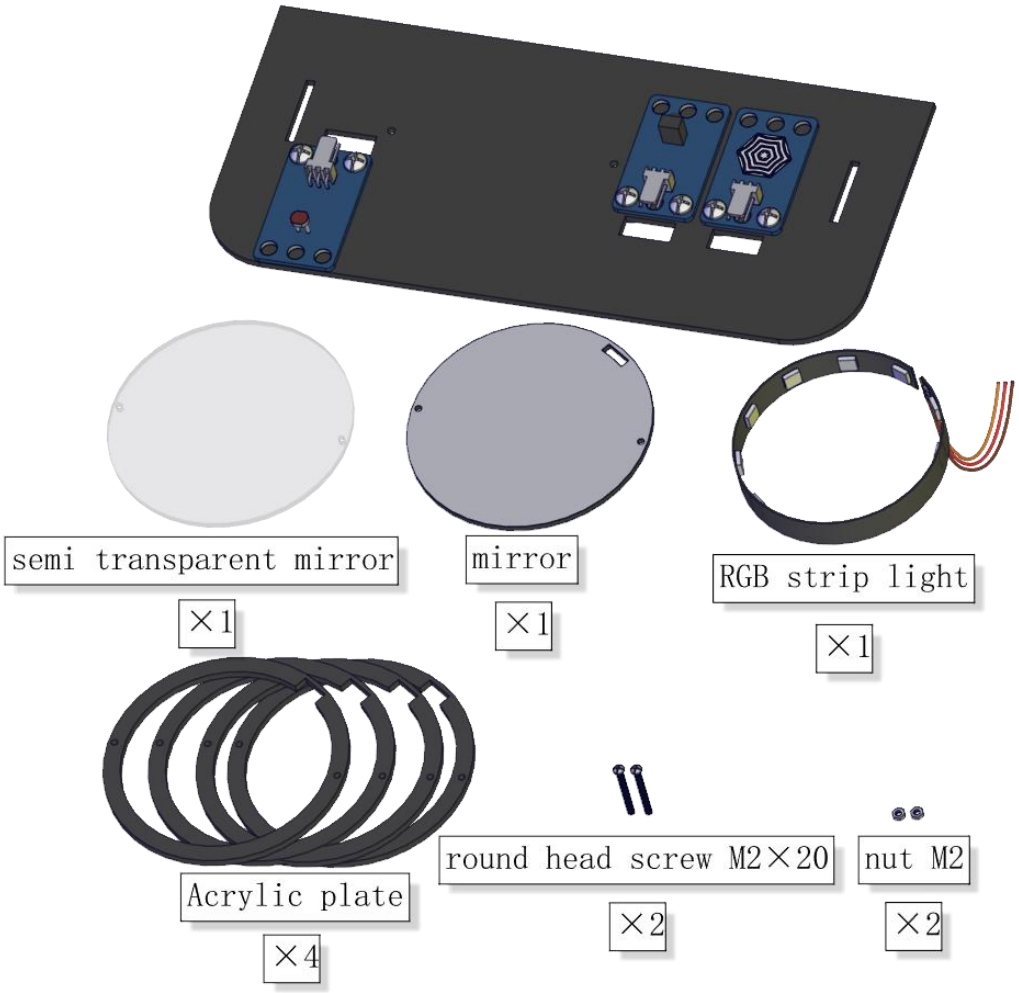
Parts required for installation	
install	

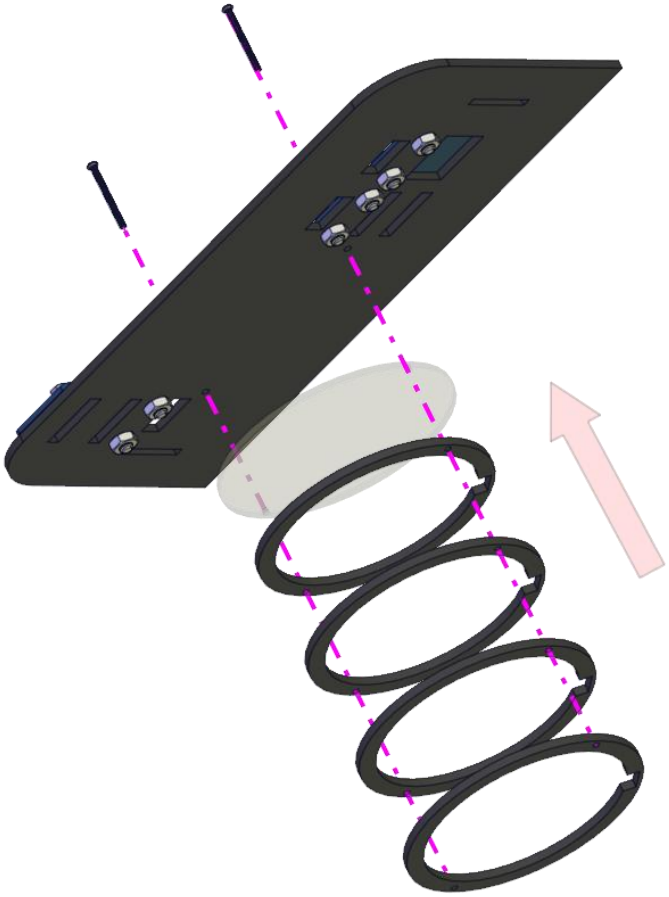
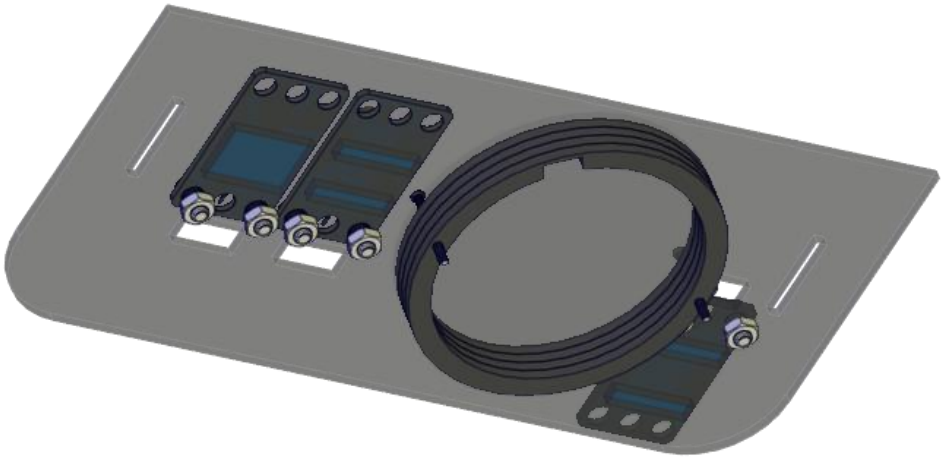
complete	
Installation 26	

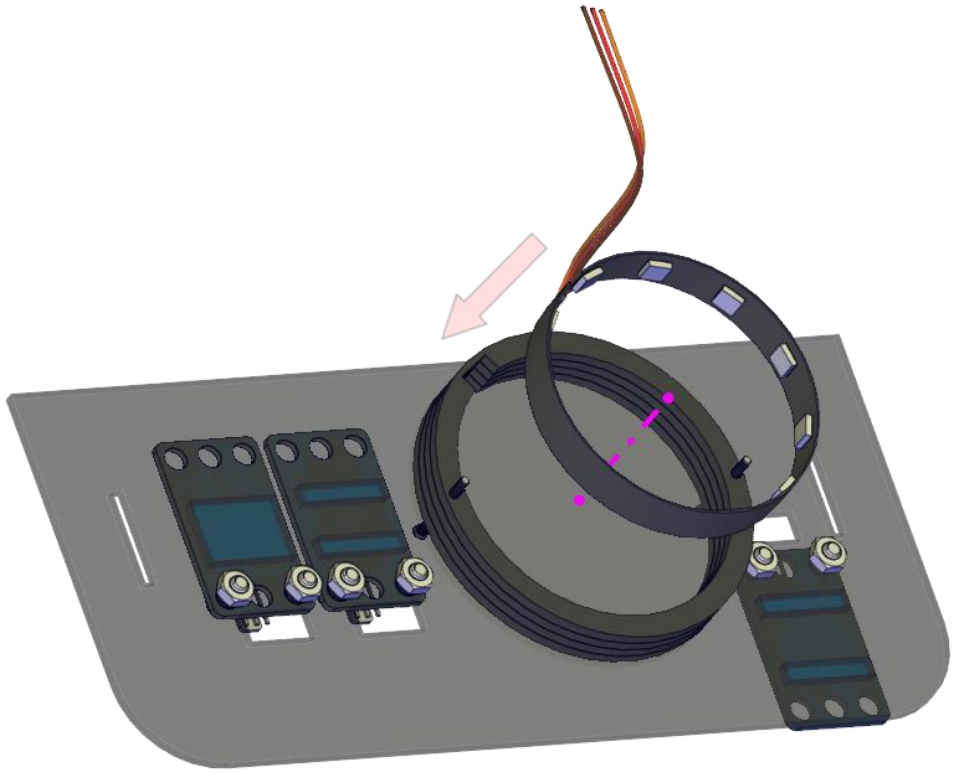
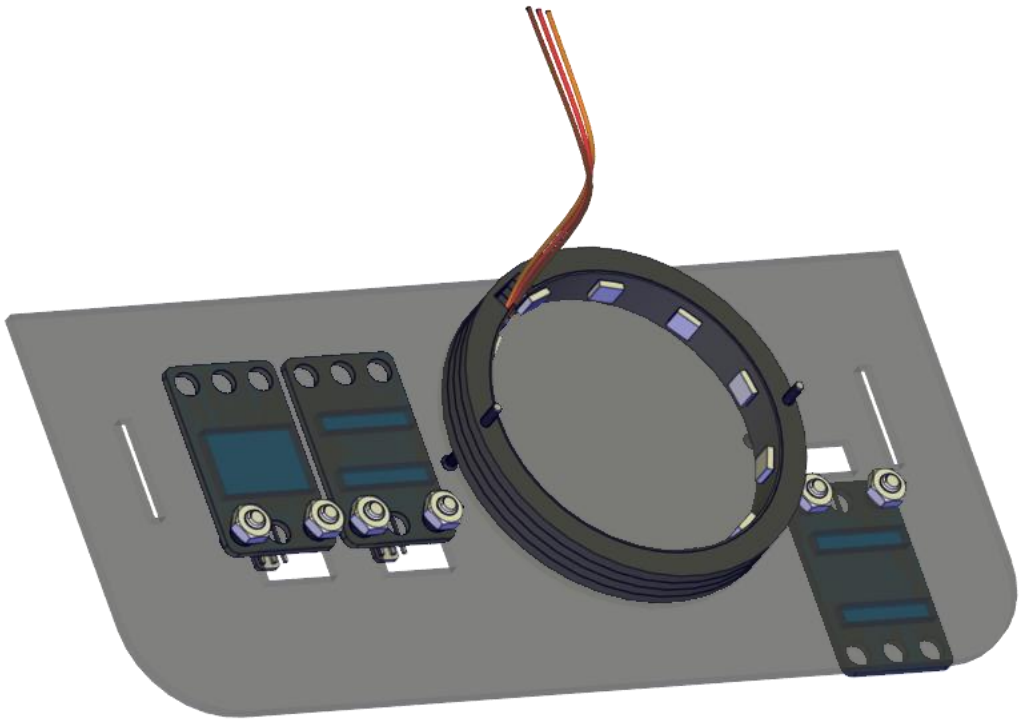
Parts required for installation	 Acrylic plate ×1  infrared receiving ×1 water drop sensor ×1 photosensitive sensor ×1  nut M4 ×6 round head screw M4×8 ×6
install	

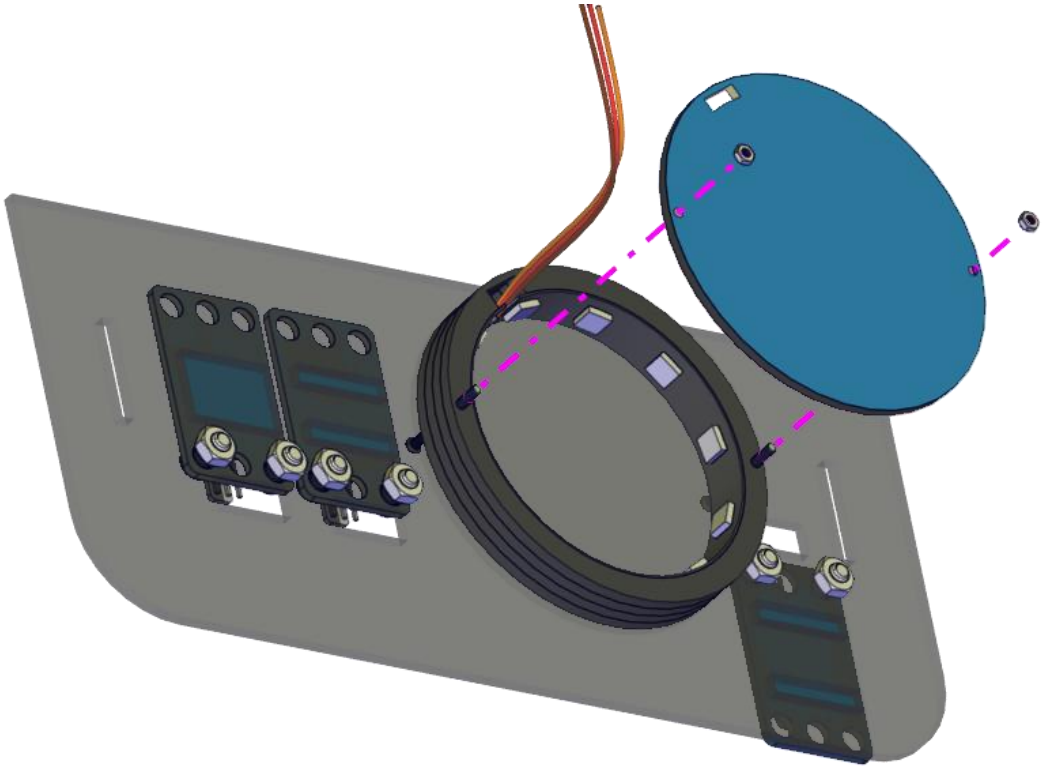
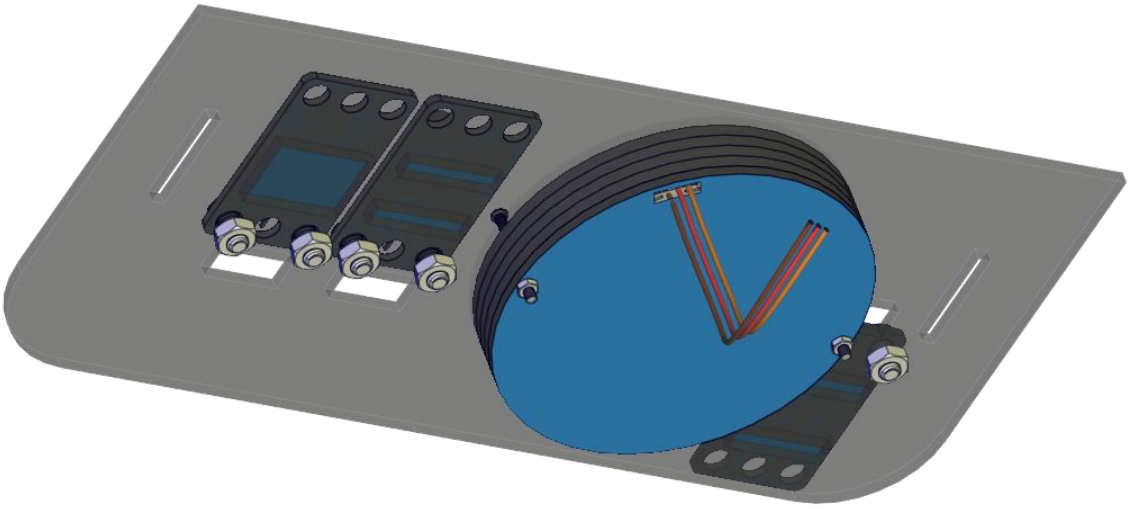
complete	

Installation 27

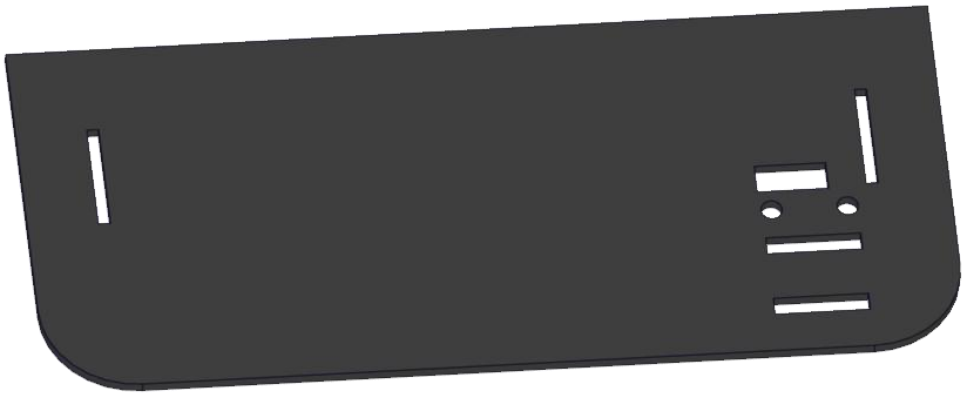
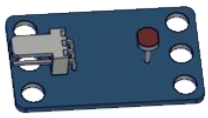
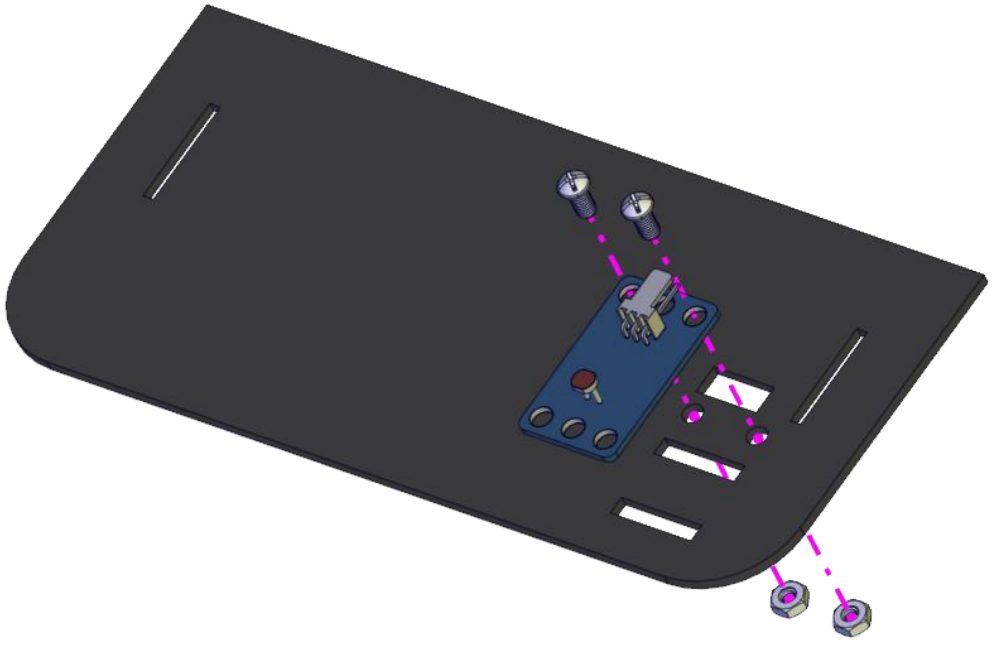
Parts required for installation (The protective film of the lens needs to be removed)	

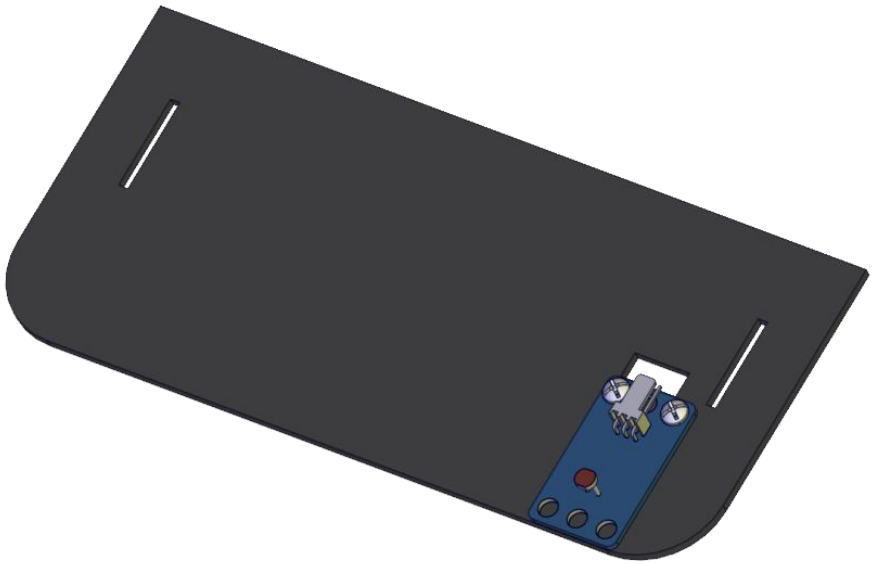
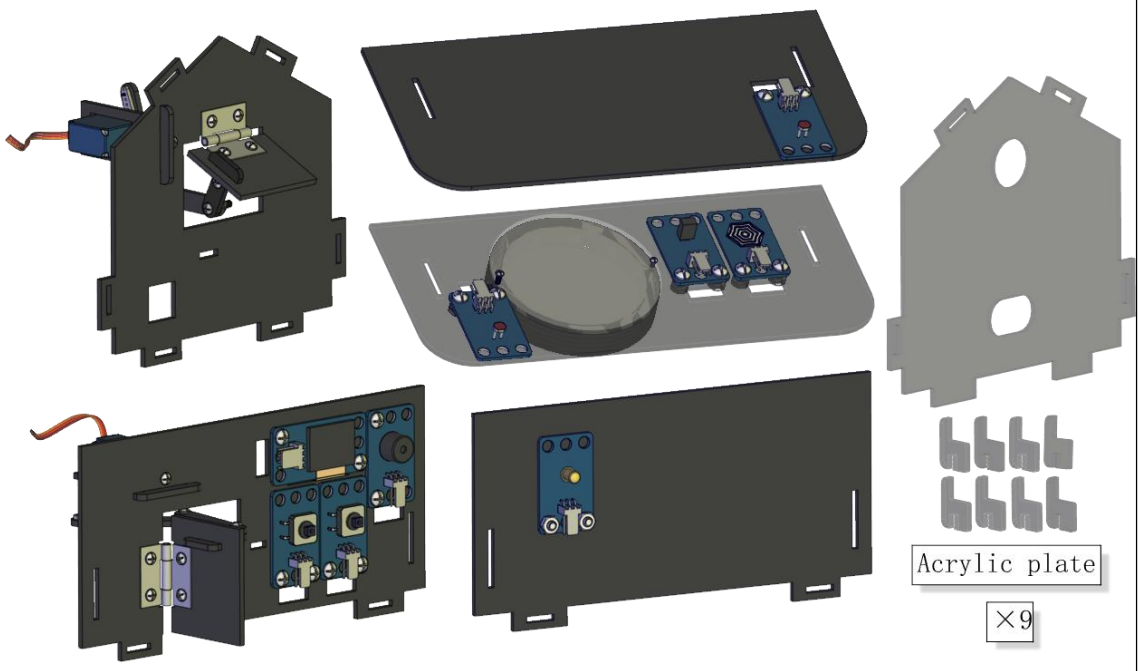
Step 1	 Note: The installation direction should be consistent with the figure below.
Step 1 complete	

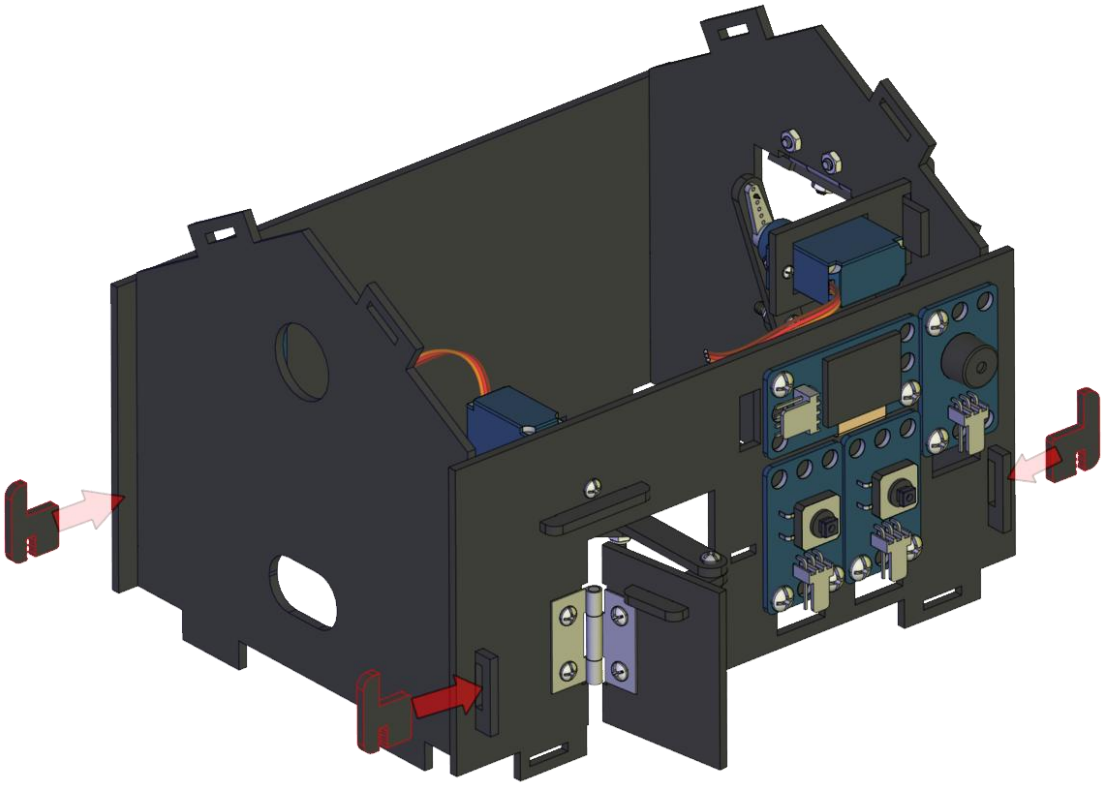
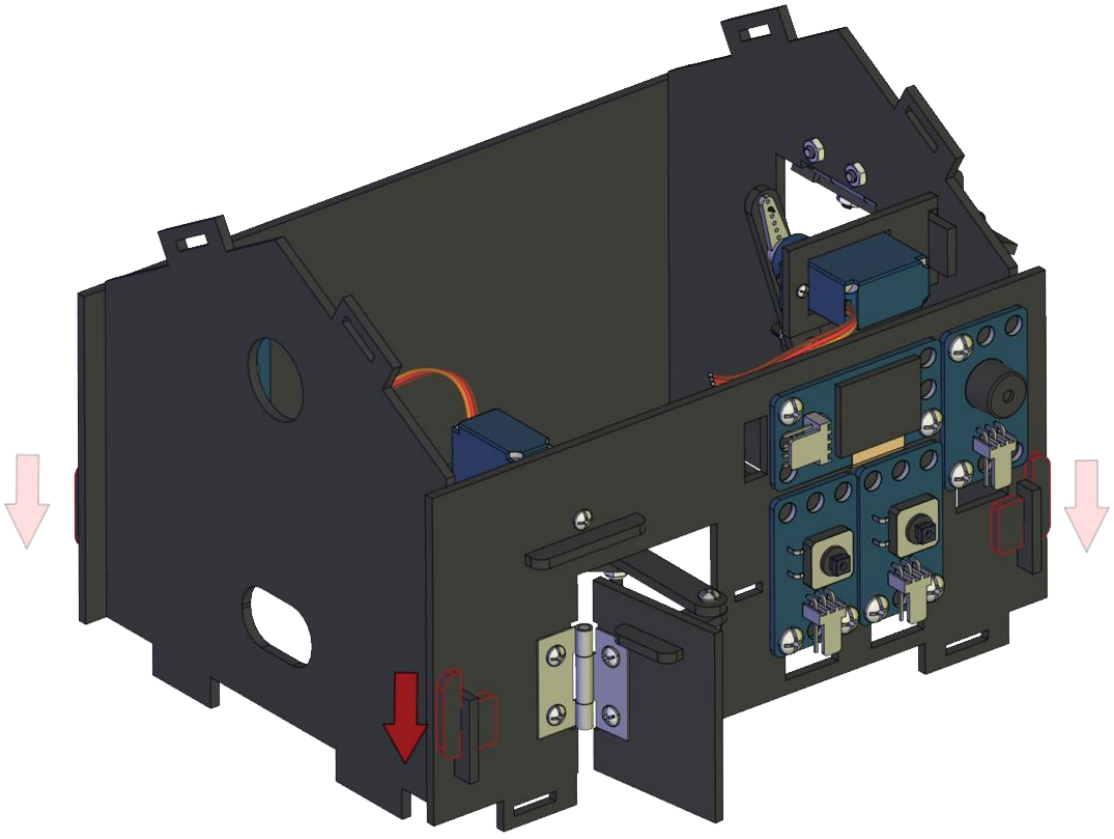
Step 2 (Paste the light strip on the ring wall)	
Step 2 complete	

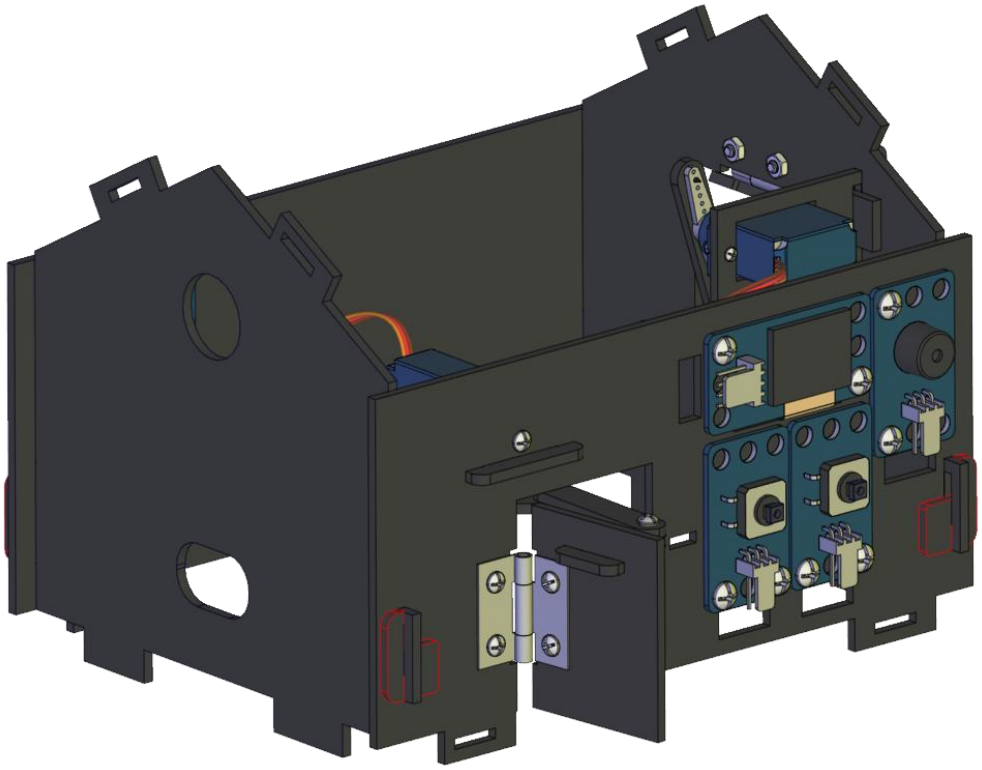
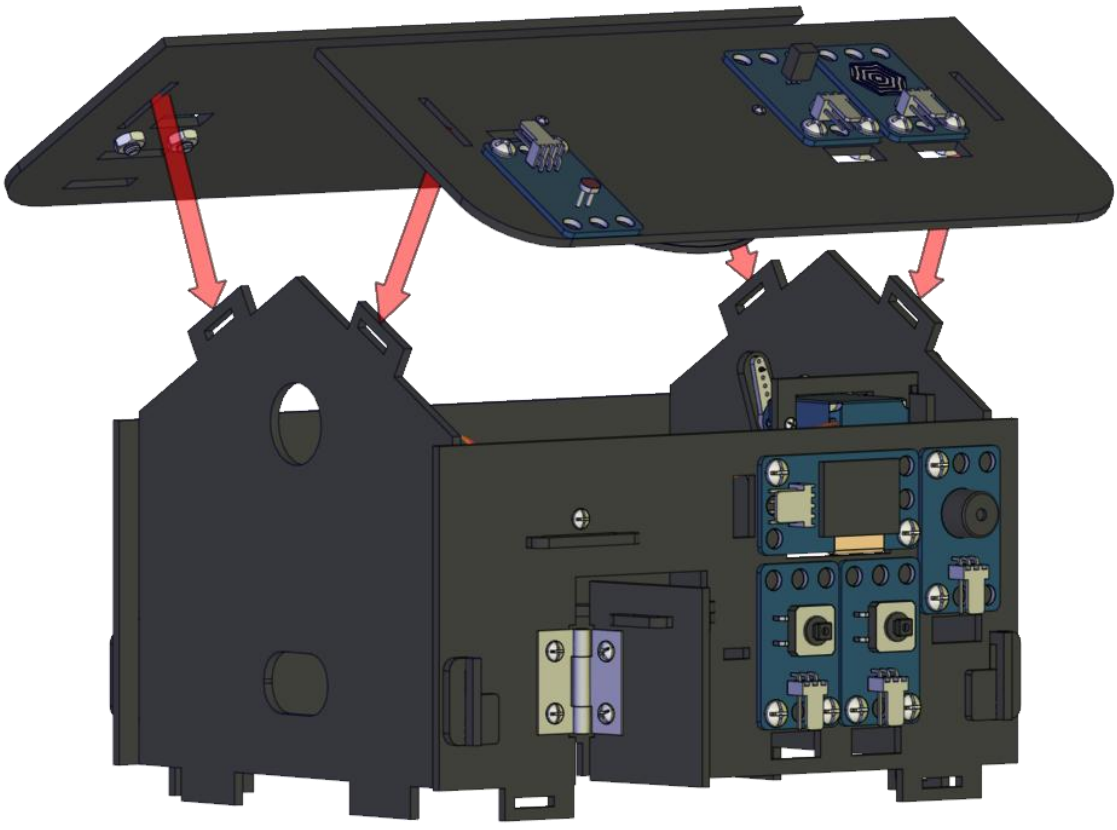
Step 3	
complete	

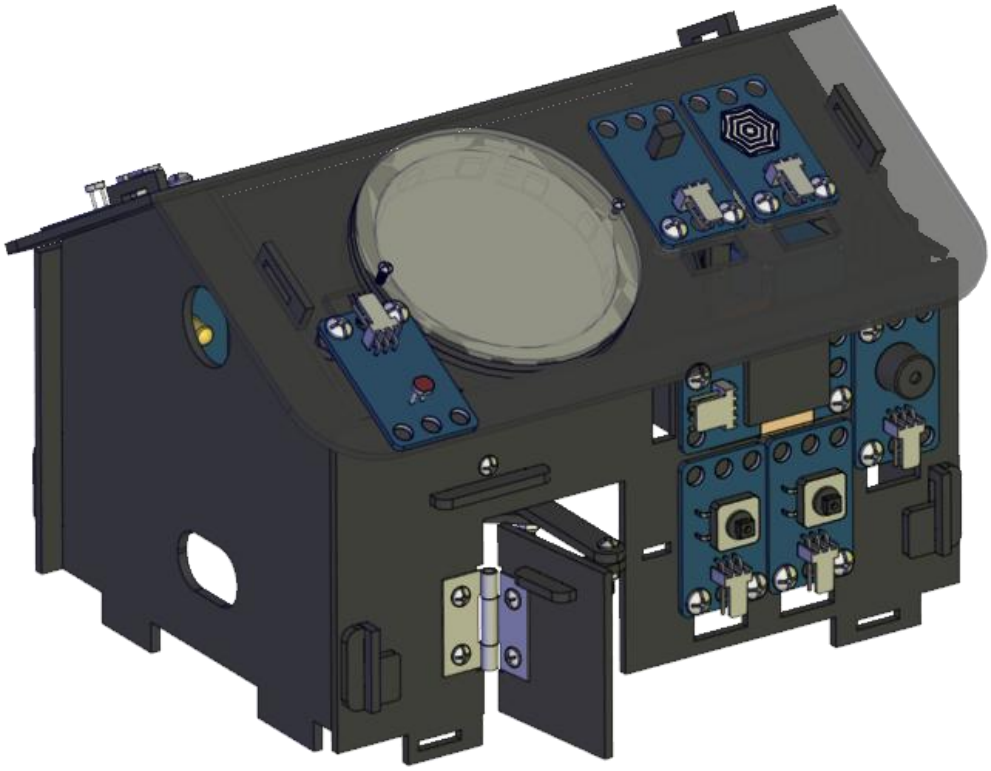
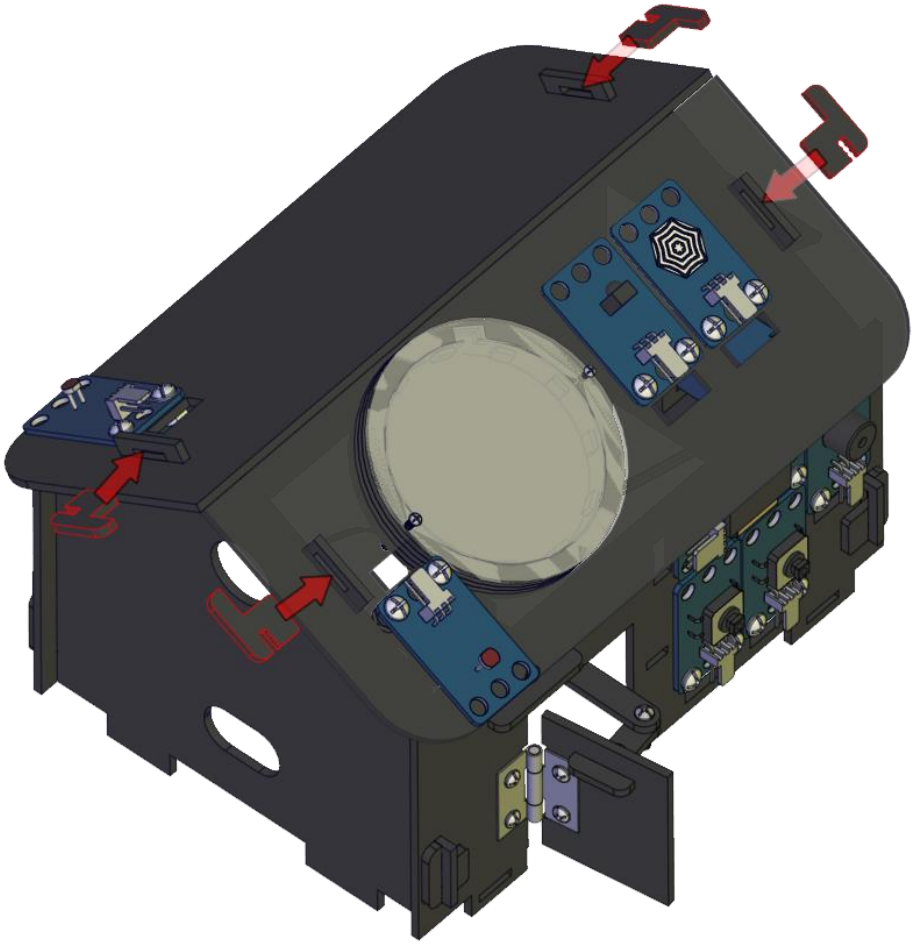
Installation 28

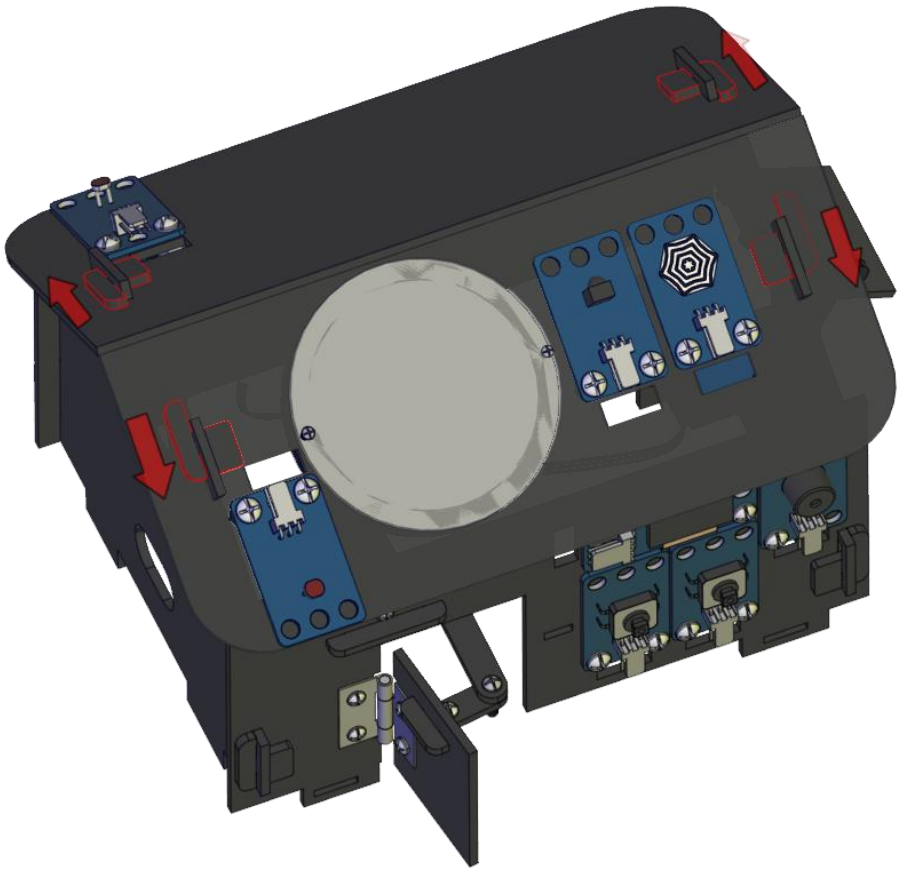
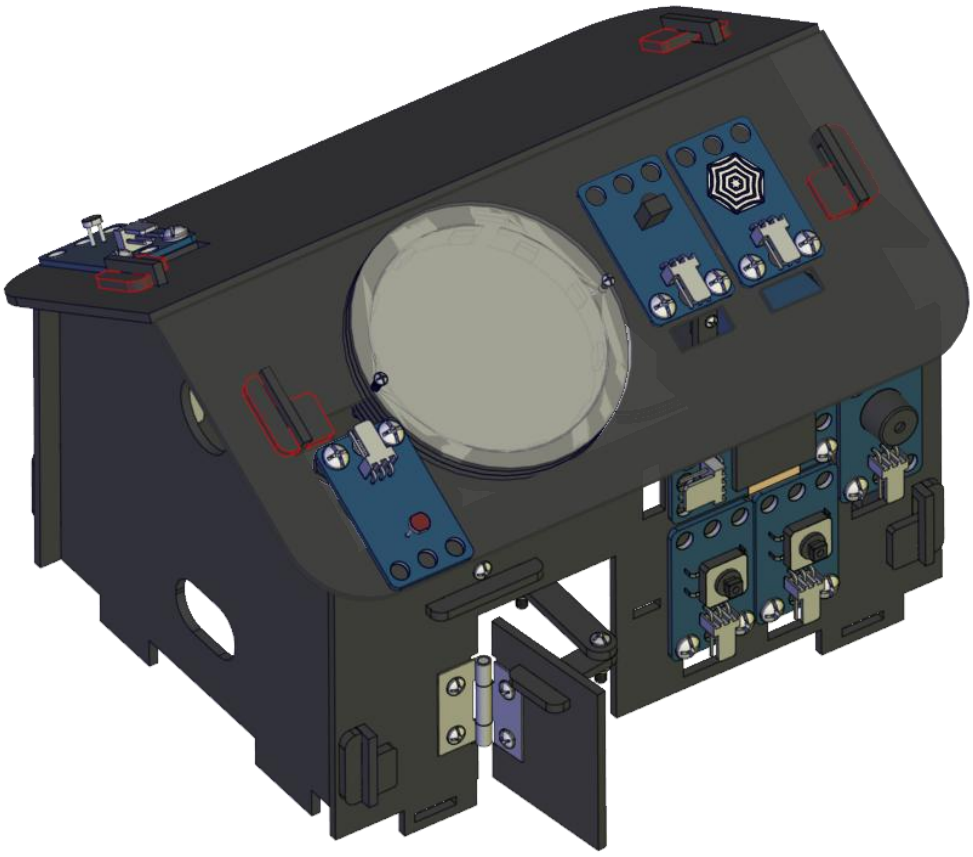
Parts required for installation	 Acrylic plate ×1  photosensitive sensor ×1  round head screw M4×8 ×2  nut M4 ×2
install	

complete	
Installation 29	
Parts required for installation	

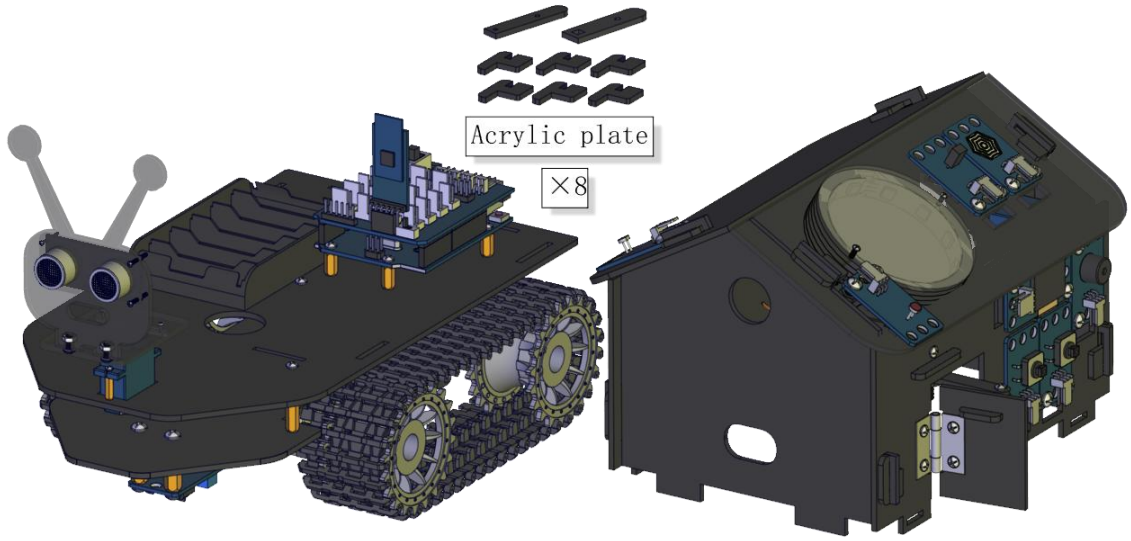
Step 1	
Step 2	

Step 2 complete	
Step 3	

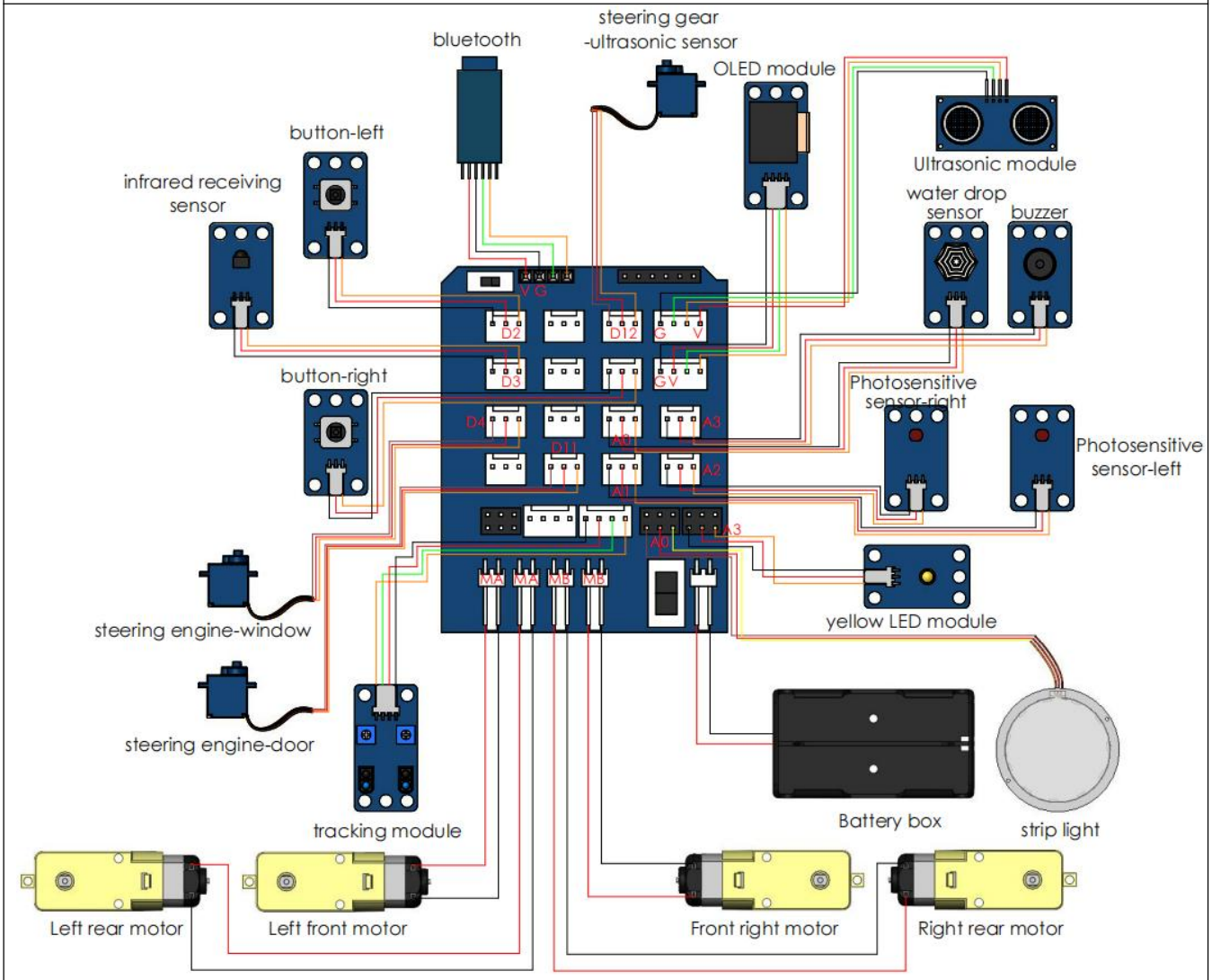
Step 3 complete	
Step 4	

Step 5	
complete	

Installation 30

Parts required for installation	

Now connect all wires



Note: The color order of the wiring should be consistent with the figure. In particular, the strip light and the three steering gear lines are not anti-reverse connection.

Wiring diagram.pdf

Wiring sequence

1. Motor wiring

The two motors on the left are connected to two MA, regardless of order;

The two motors on the right are connected to two MB, regardless of order;

2. Tracking module wiring (D9,D10)

3. Steering gear wiring at the head (D12)

Note the color order of the wiring, black --G, red --V, orange -- D12

4. Battery box wiring

5. Yellow LED (A3)

Note that it is connected to the A3 black 3P terminal near the power switch

6. Left button module (D2)

7. Right button module (D13)

8. Buzzer module (A3)

Note:Connect to A3 of the white terminal

9. OLED display

Note:Connect to the IIC interface without white wire frame. The sequence is SCL SDA V G

10. Steering gear for windows (D4)

Note the color order of the wiring, black --G, red --V, orange -- D4

11. Door steering gear (D11)

Note the color order of the wiring, black --G, red --V, orange -- D11

12. Ultrasonic module

Note:The wire should pass through the hole and connect to the IIC interface with the white wire frame. The sequence is V SCL SDA G

13. Water drop sensor (A0)

Open the window first, it will be better to connect to the A0 port

14. Infrared receiving module (D3)

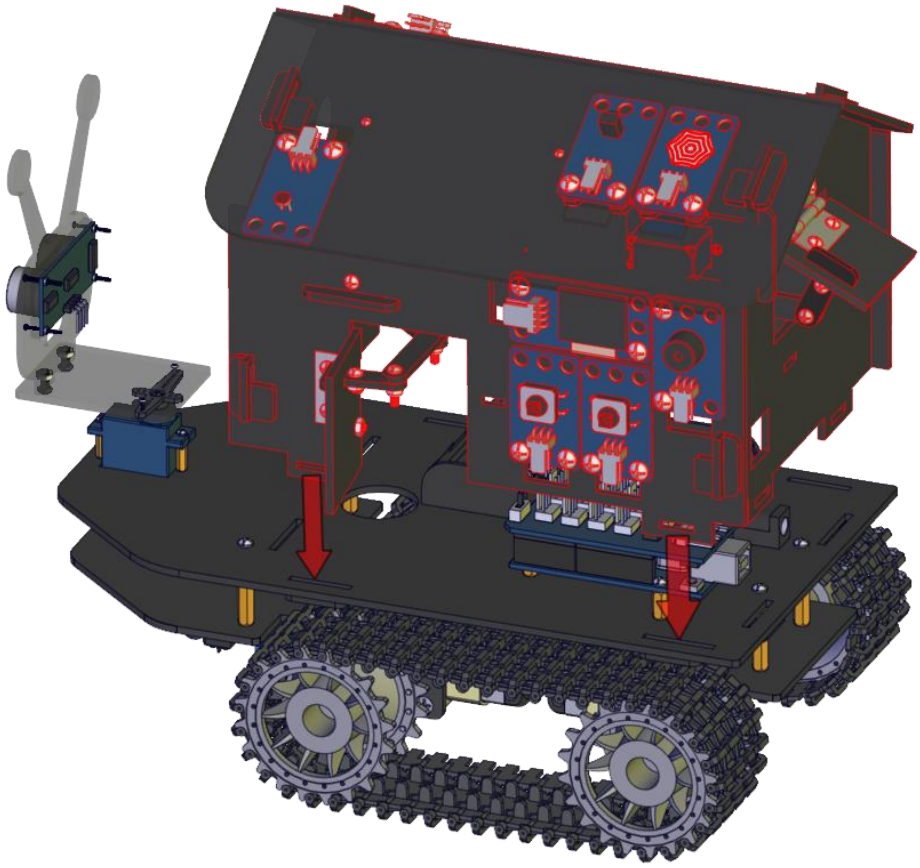
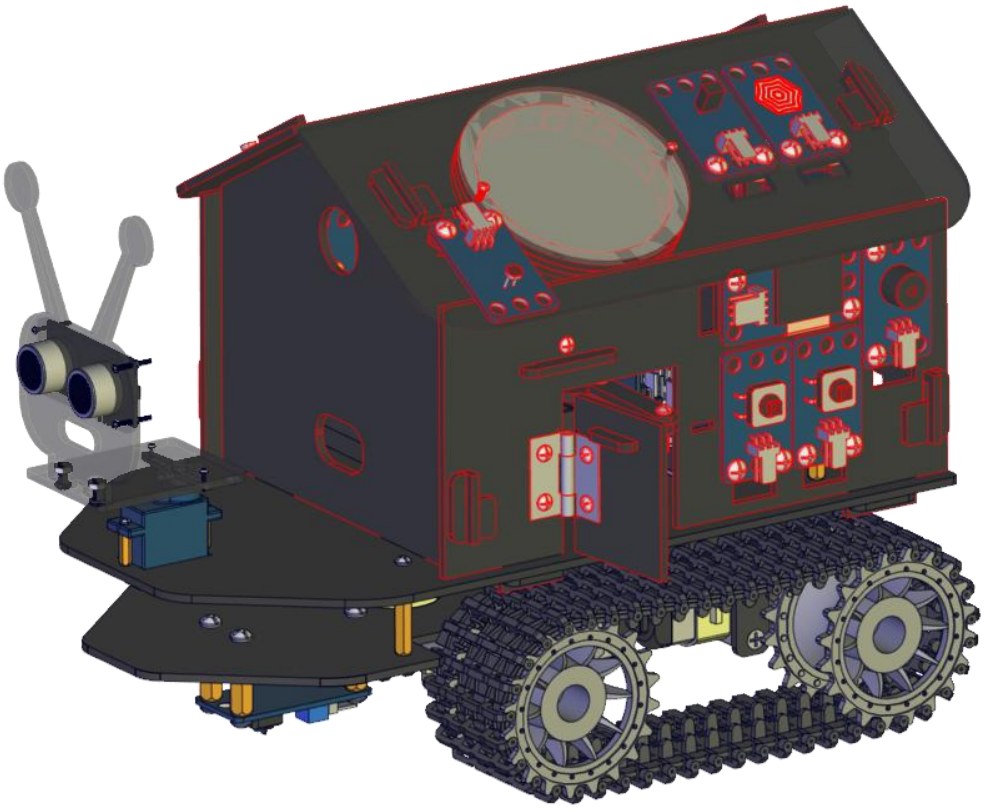
15. Strip light (A0)

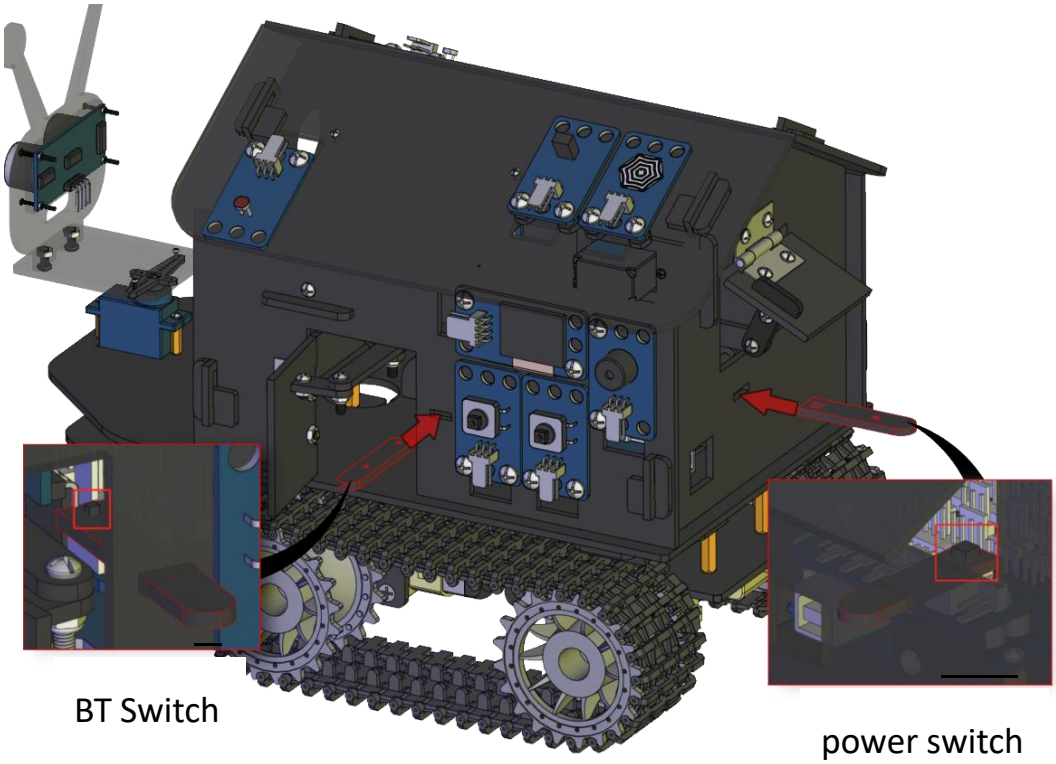
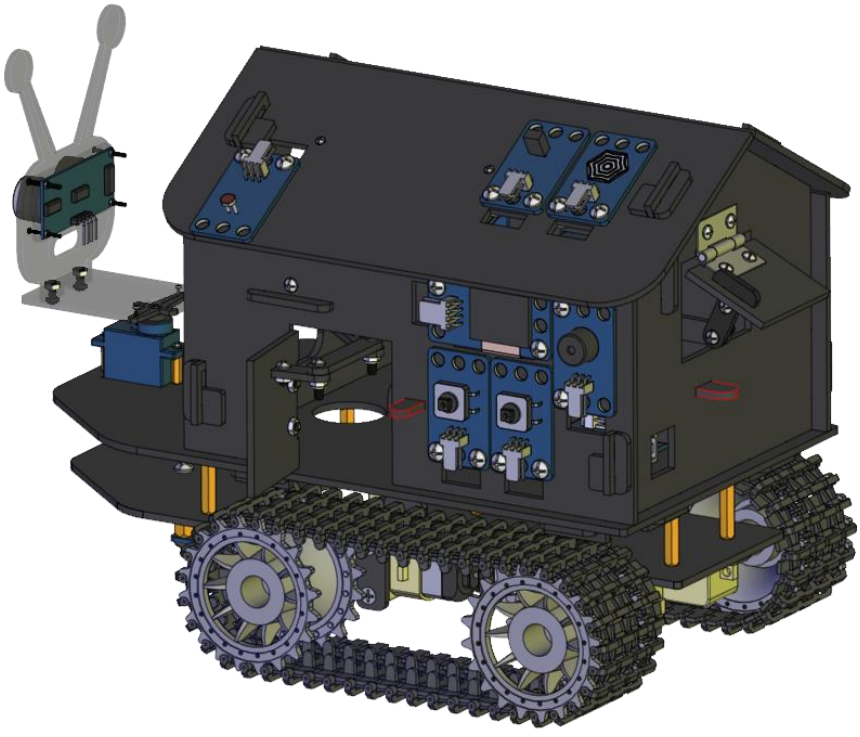
Note:Connect it to the A0 black terminal near the power switch.

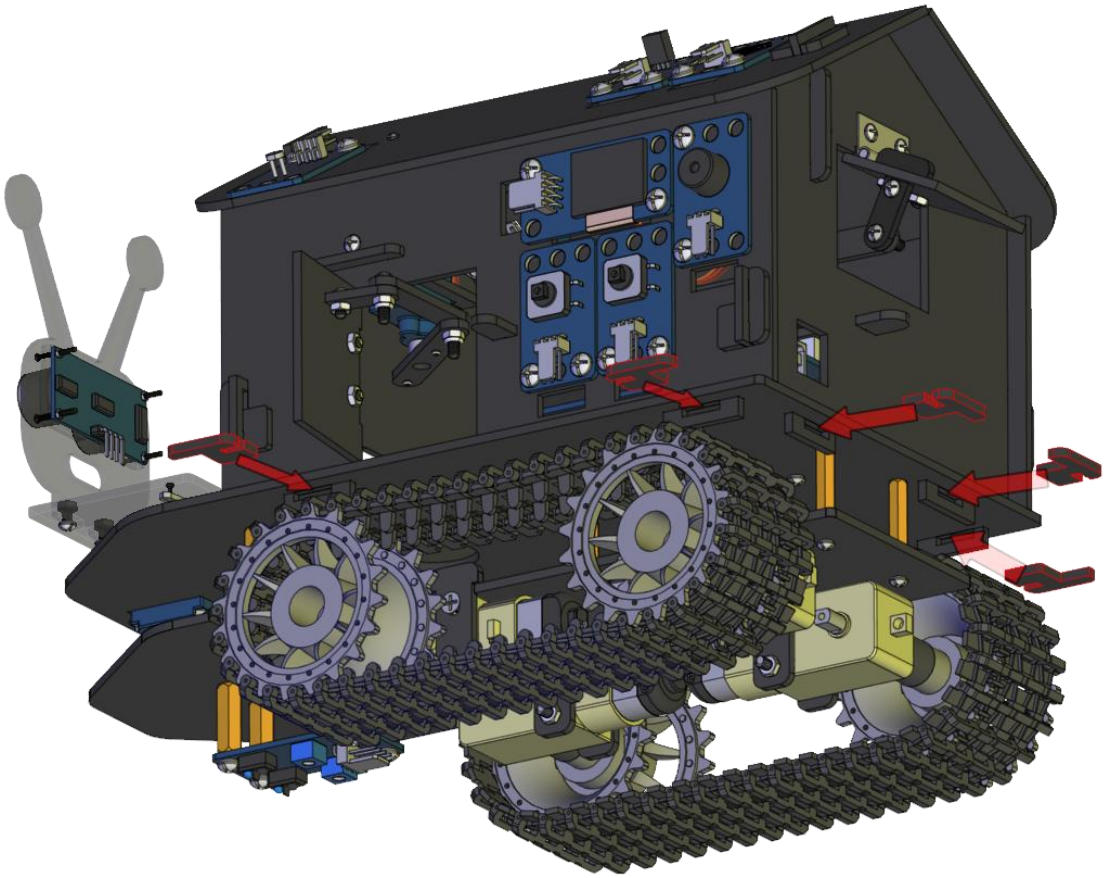
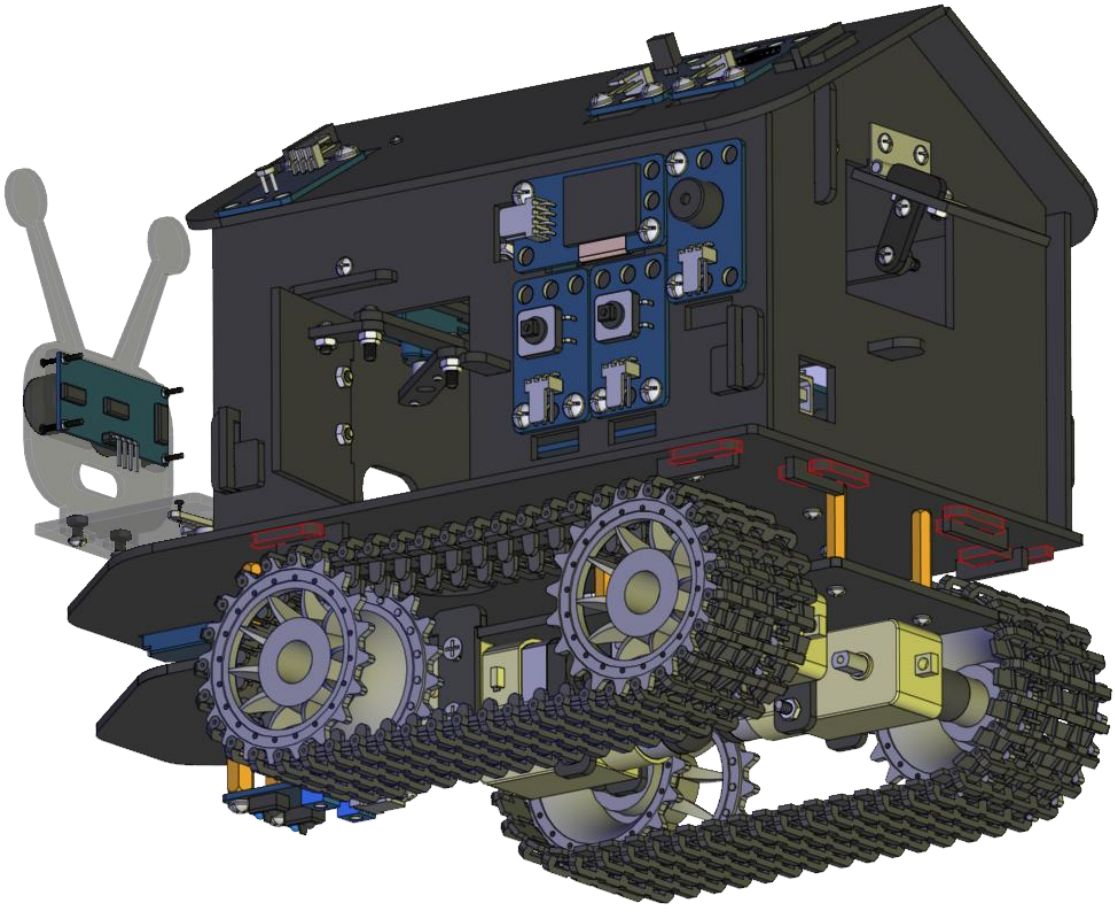
the color order of the wiring, black --G, red --V, orange -- A0

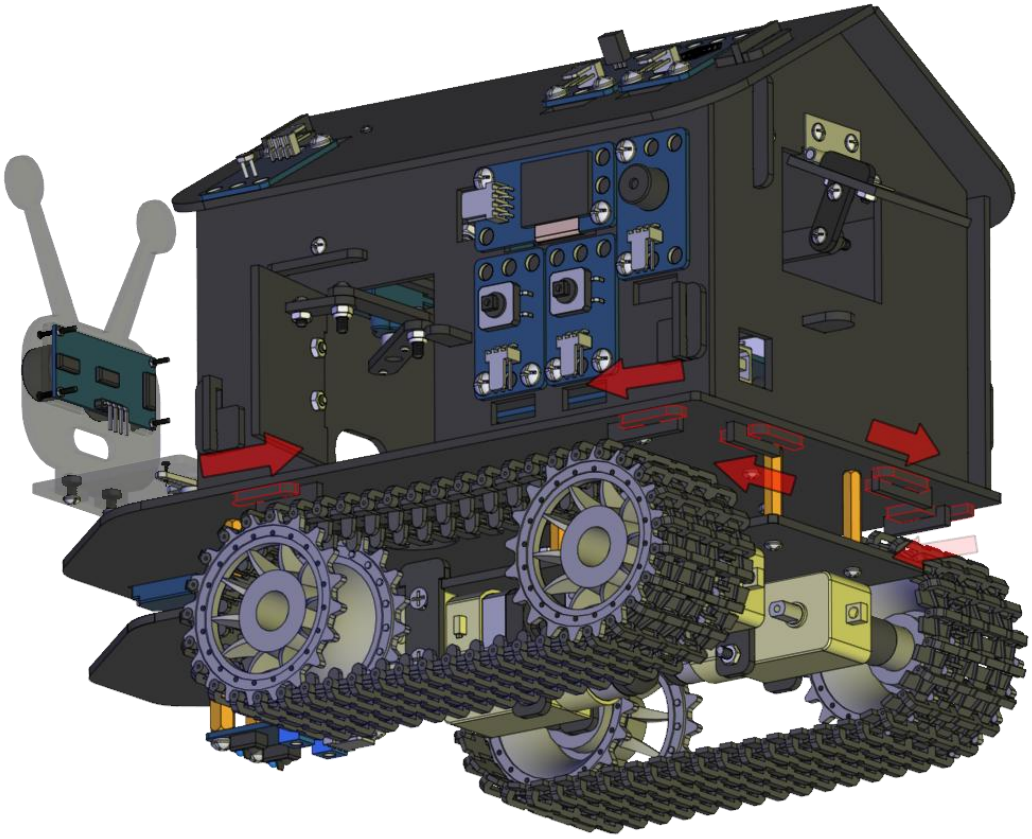
16. Photosensitive sensor on the left (A1)

17. Right photosensitive sensor (A2)

Step 1	
Step 1 complete	

Step 2 (The switch needs to be buckled in the correspon ding hole position)	 BT Switch power switch
Step 2 complete	

Step 3	
Step 3 complete	

Step 4	
complete